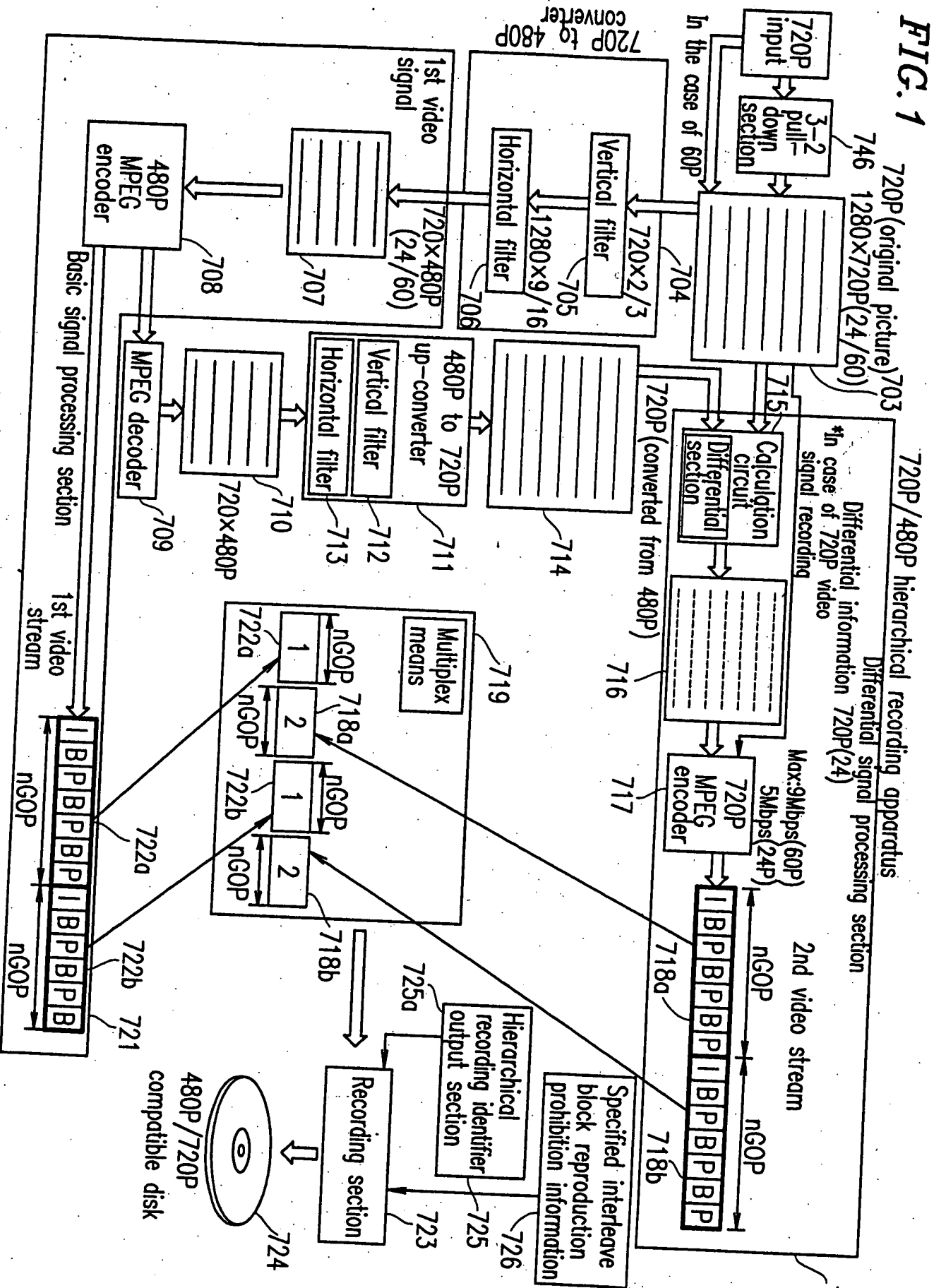
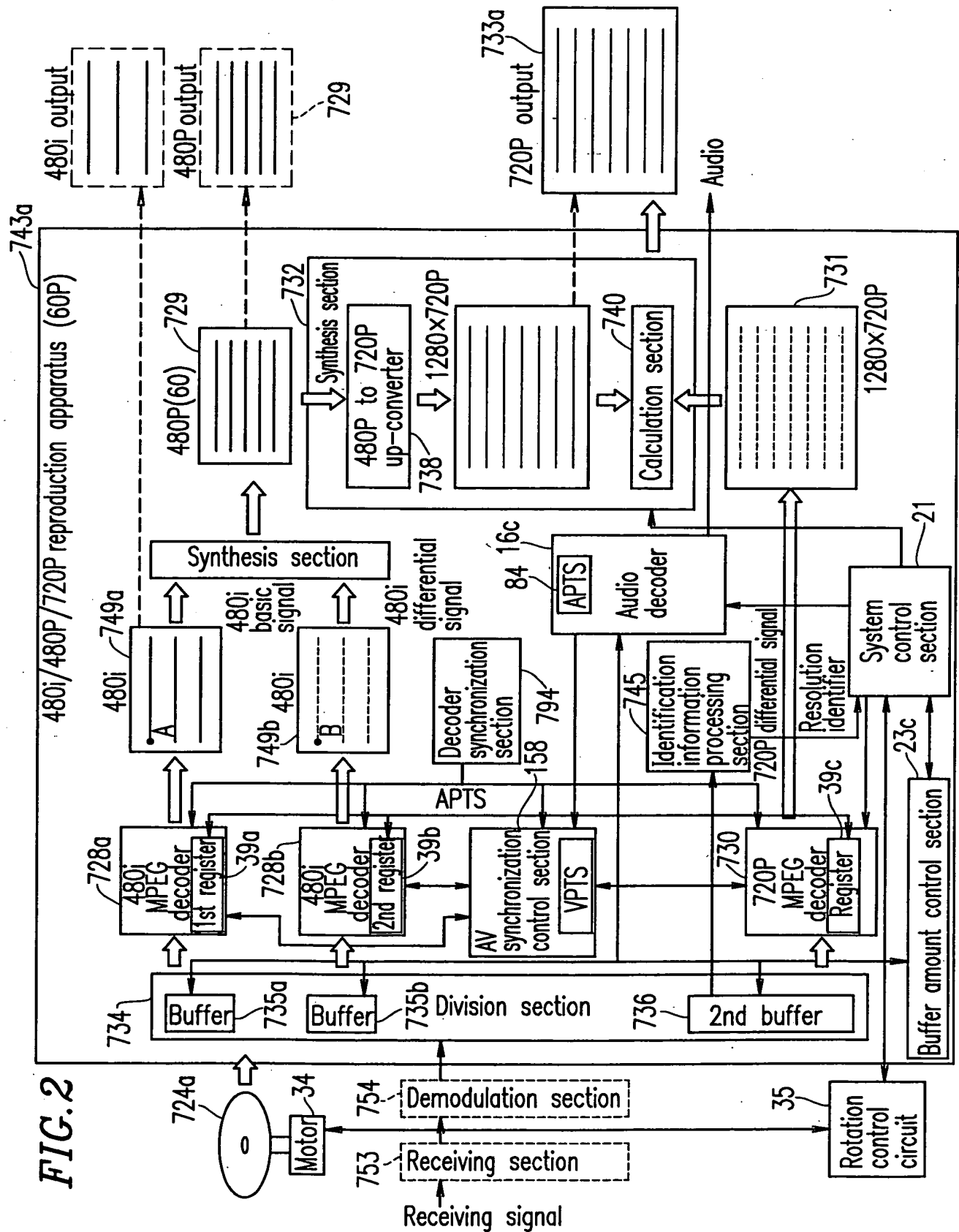


FIG. 1





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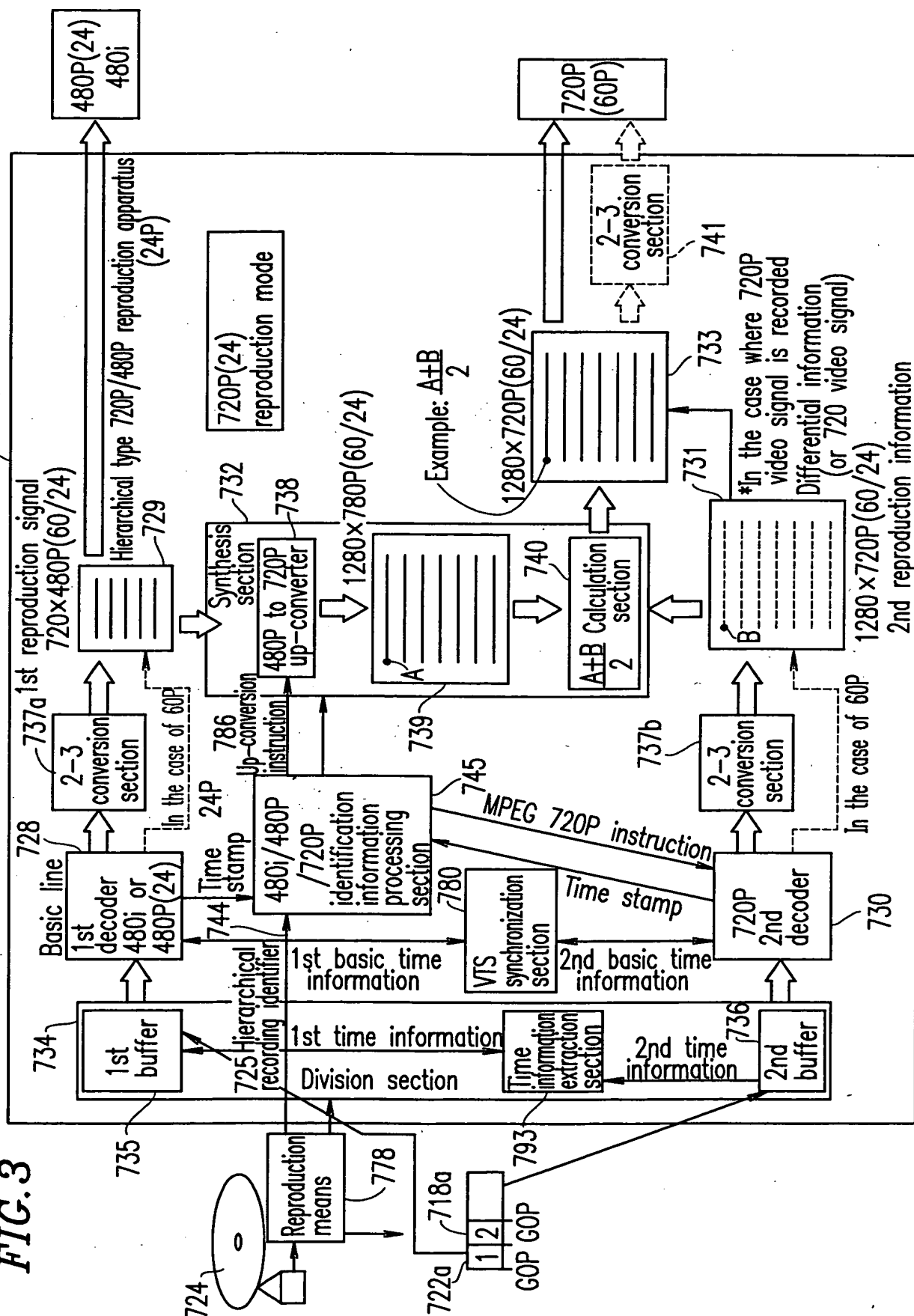
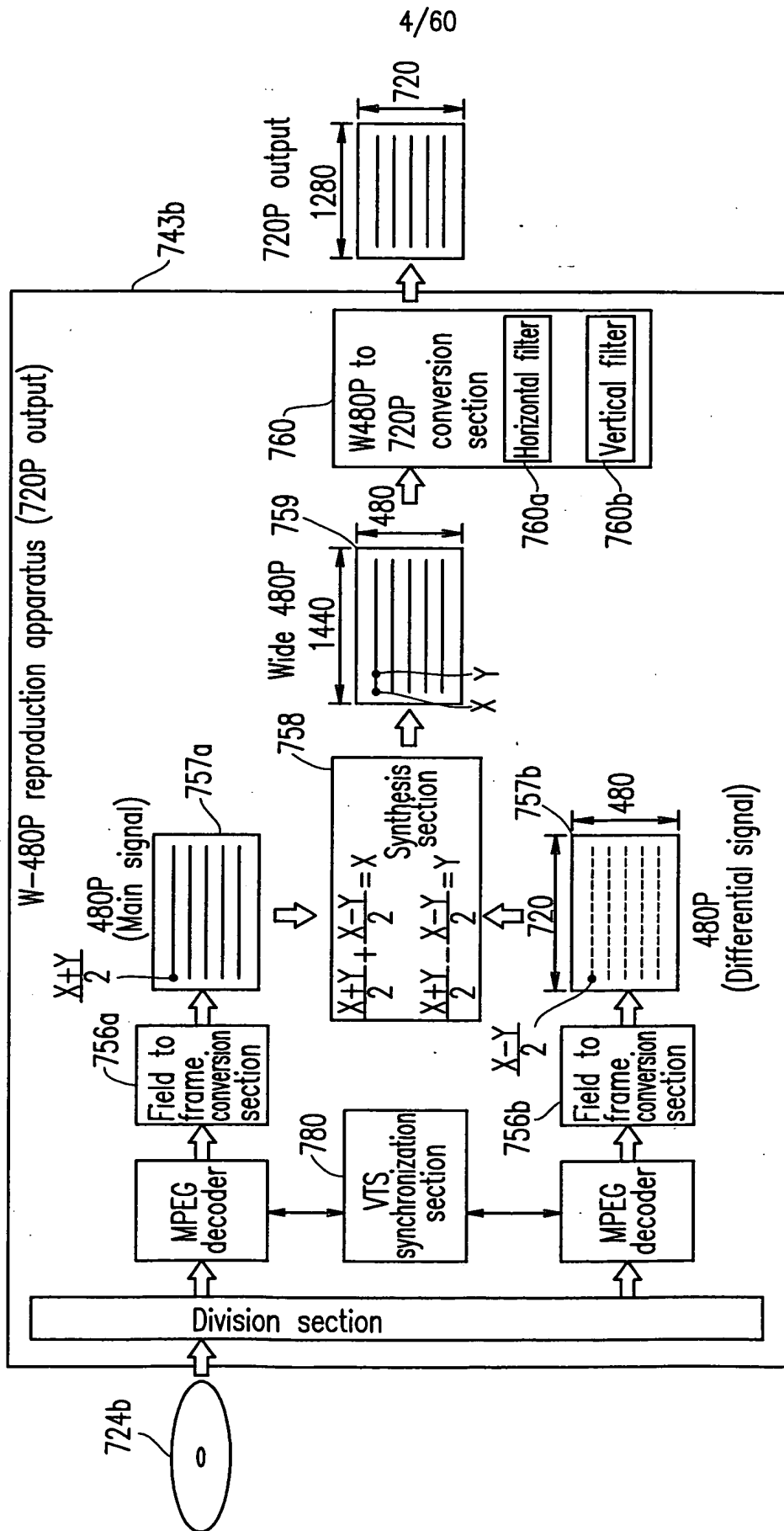
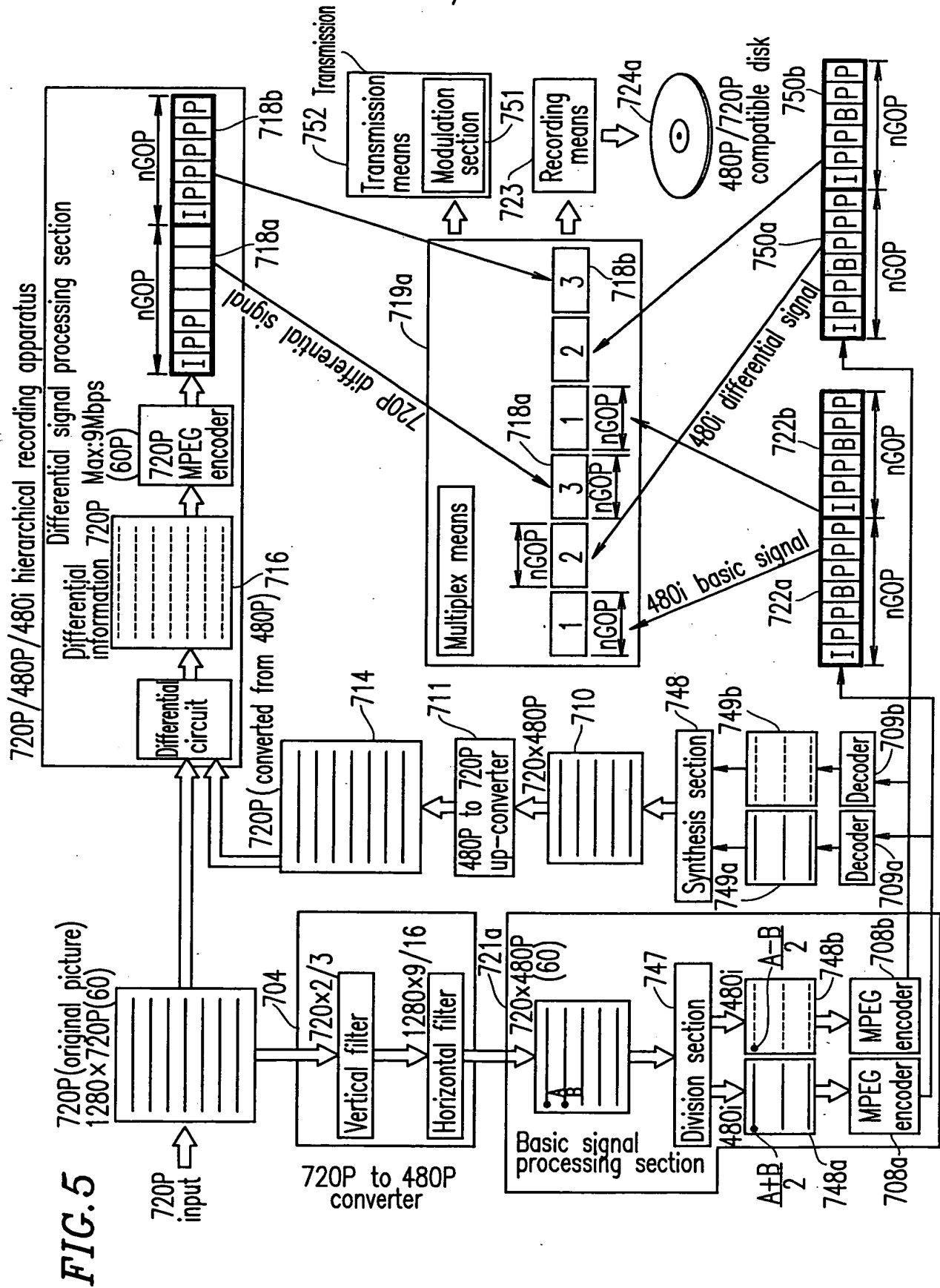


FIG. 4





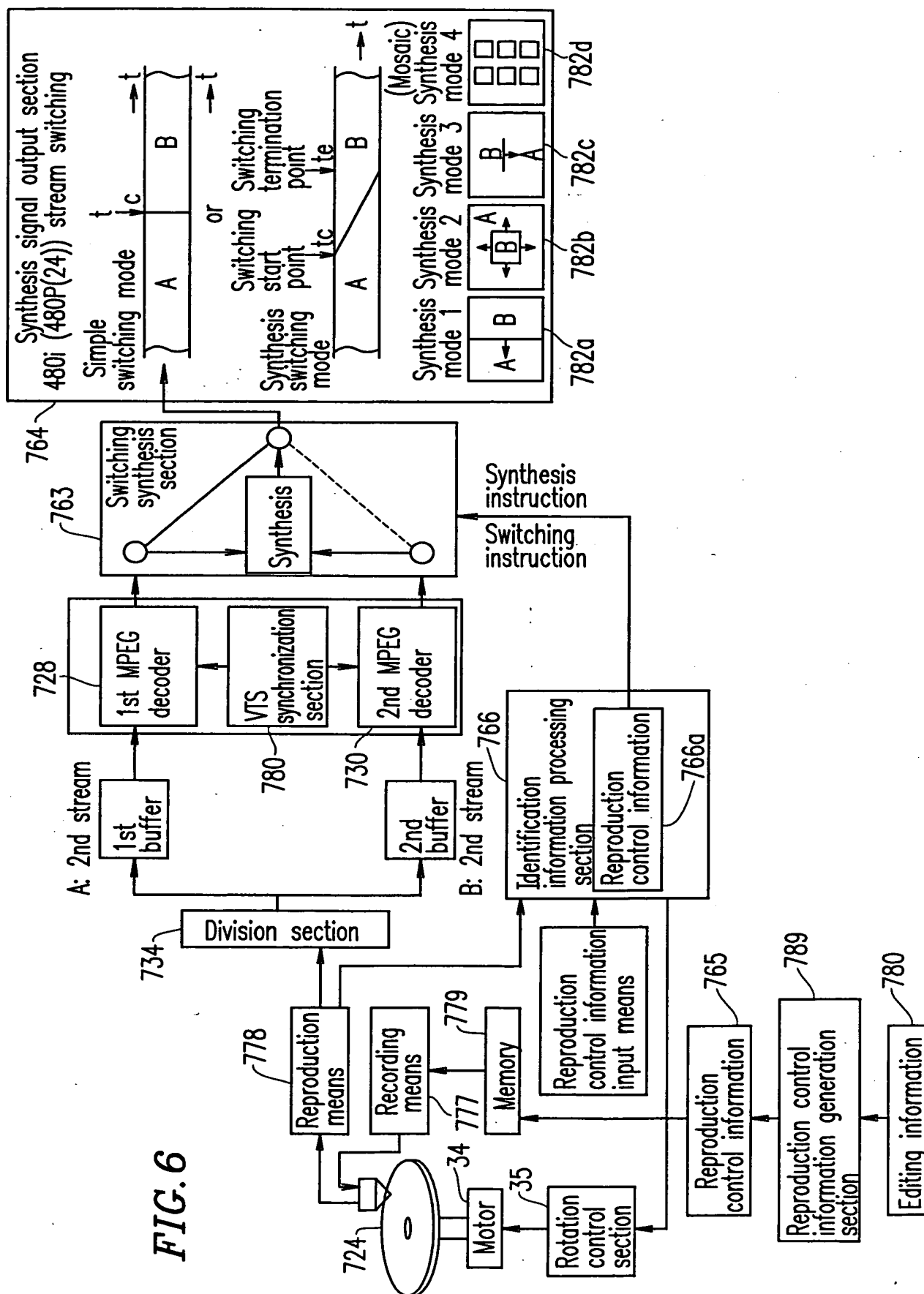


FIG. 7

Recording steps of stream 1 and 2

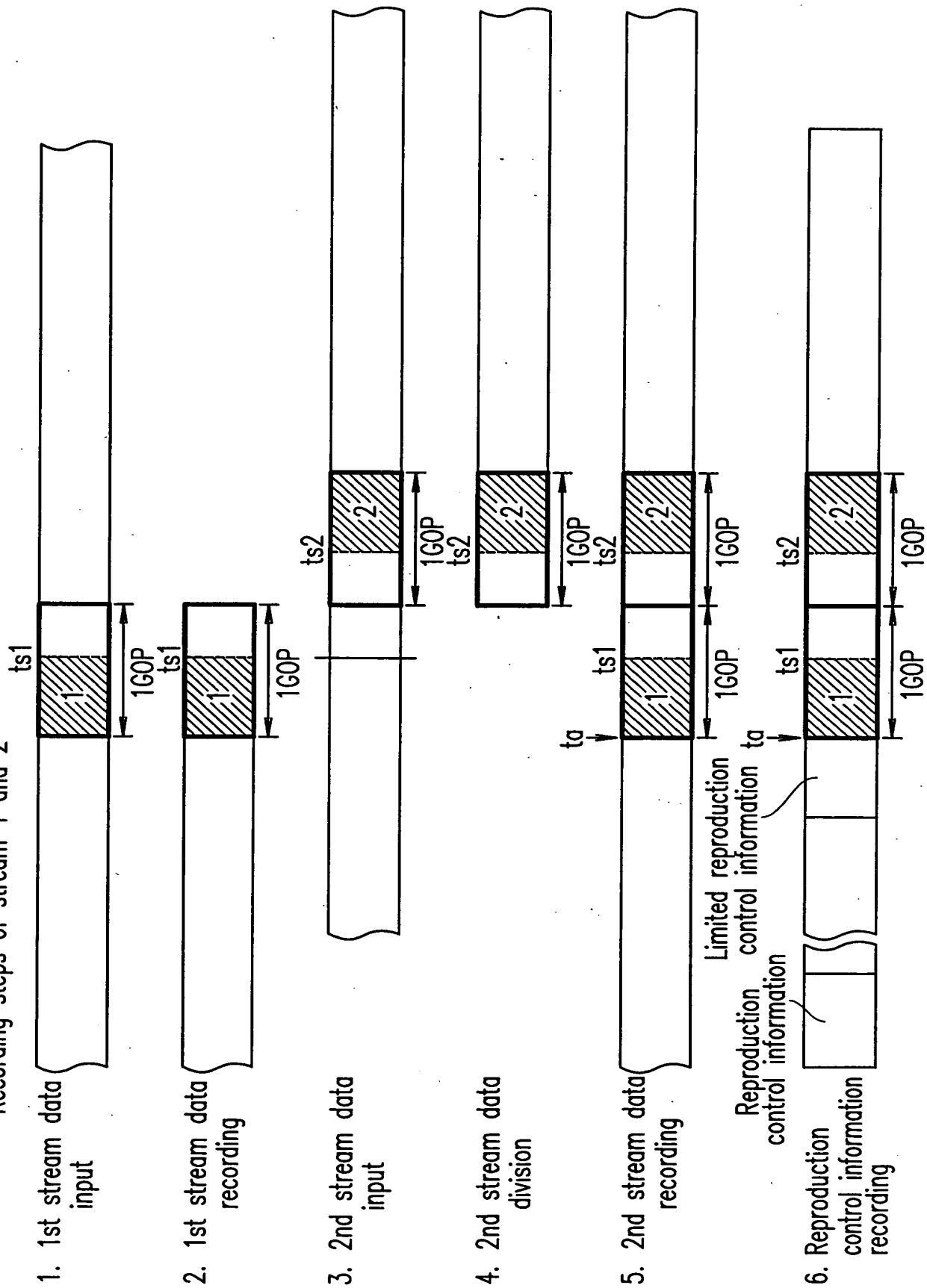
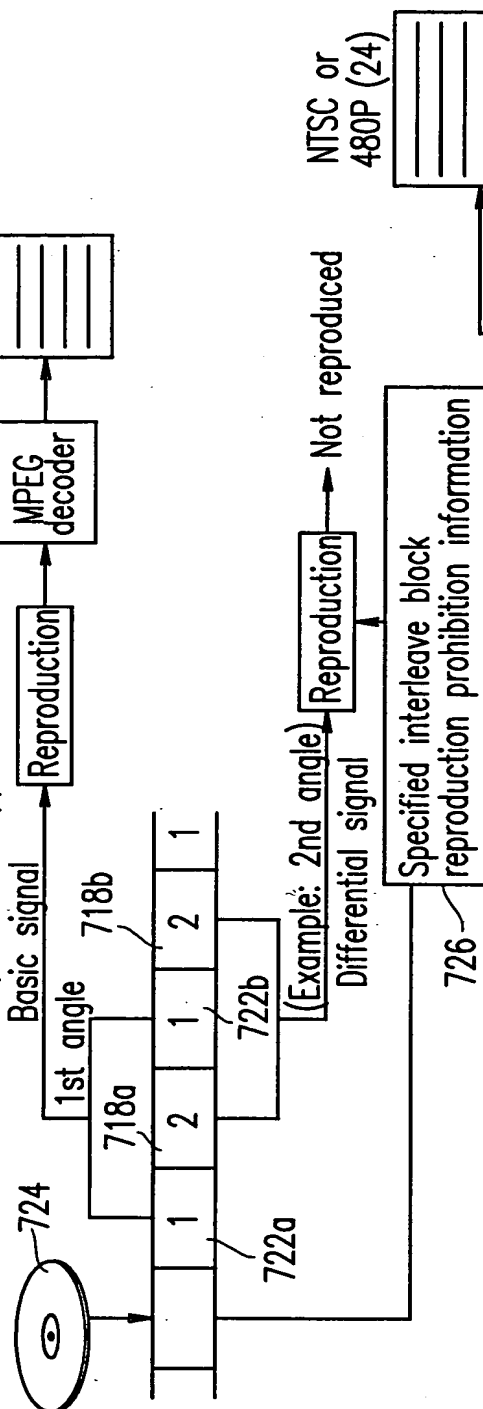


FIG. 8

Comparison of reproduction operation of hierarchical disks

(1) Reproduction by conventional reproduction apparatus



(2) Reproduction by reproduction apparatus of the present invention

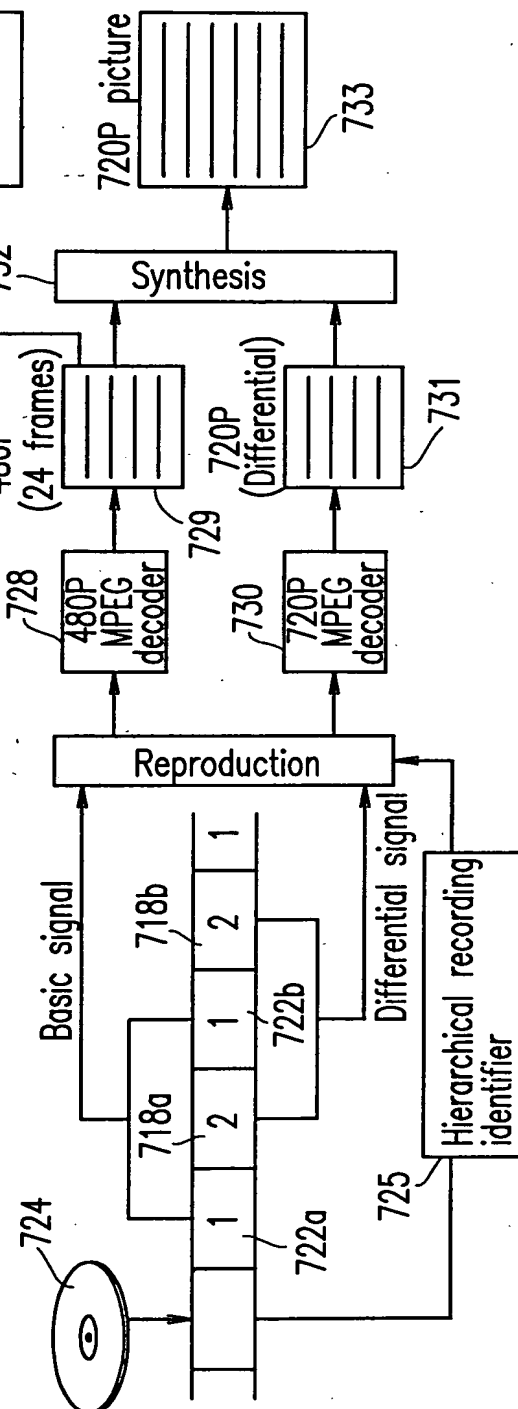
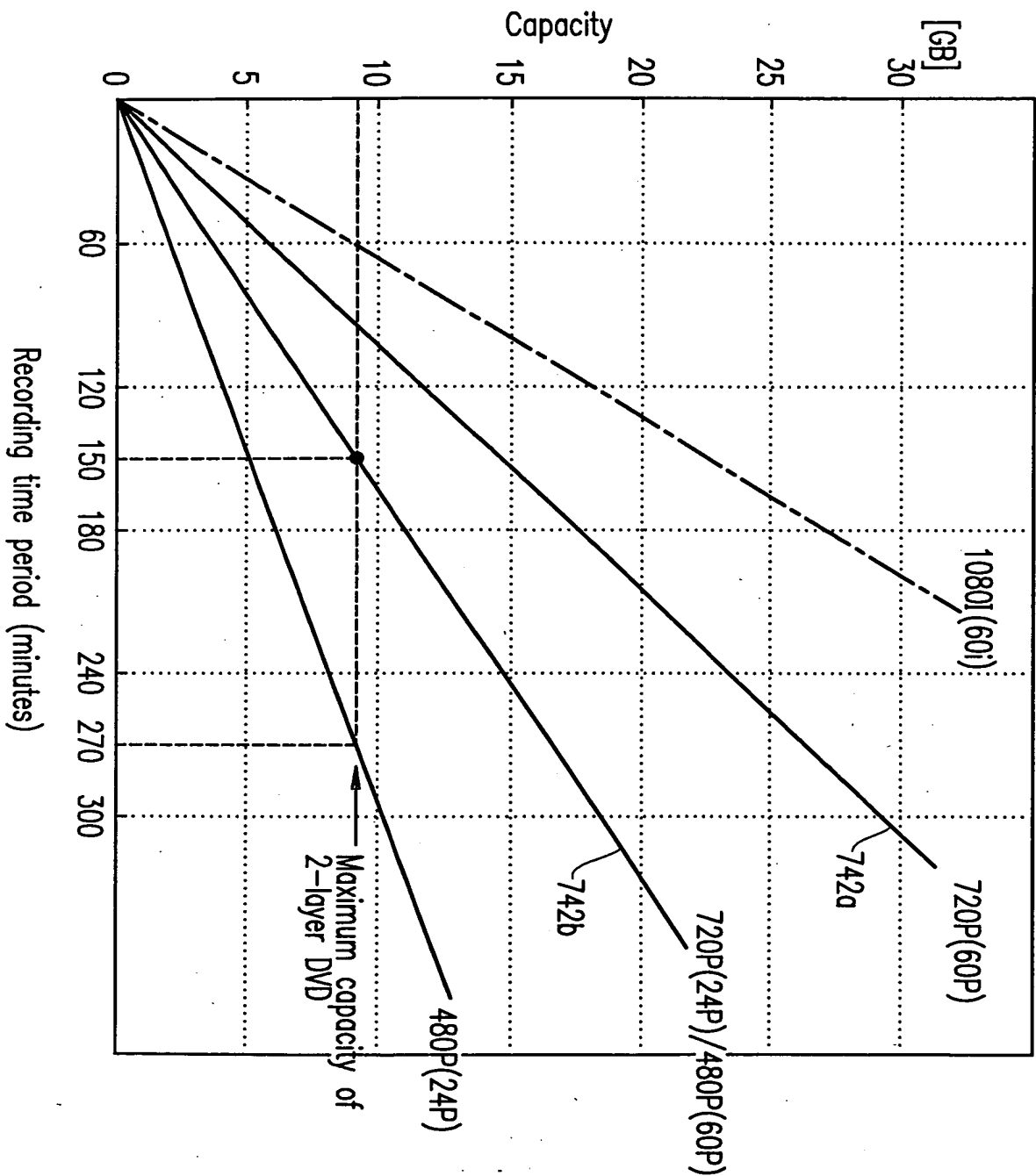


FIG. 9



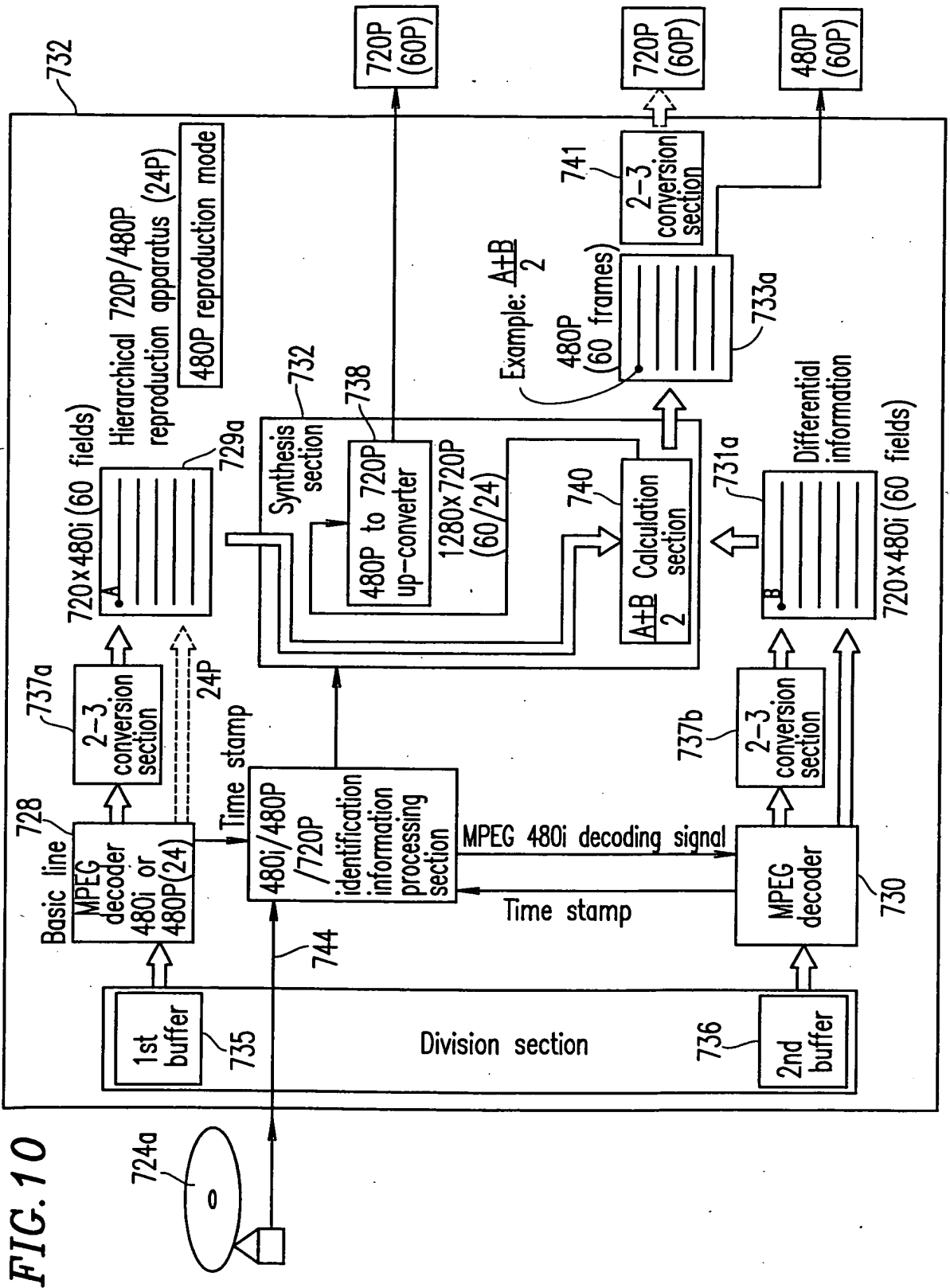


FIG. 11 Reproduction control information

Switching point number S	Picture synthesis identifier	1st stream		2nd stream			
		768	769	770	771	772	773
		Switching start address:ts1	Switching termination address:te2	GOP start address:tsG	Switching start address:ts2	Switching termination address:te2	Decoding start address:ta
1	None	ts1-1		tsG-1	ts2-1		ta1
2	Mode 1	ts1-2	te2-2	tsG-2	ts2-2	te2-2	ta2
3	Mode 2	ts1-3	te2-3	tsG-3	ts2-3	te2-3	ta3

FIG. 12

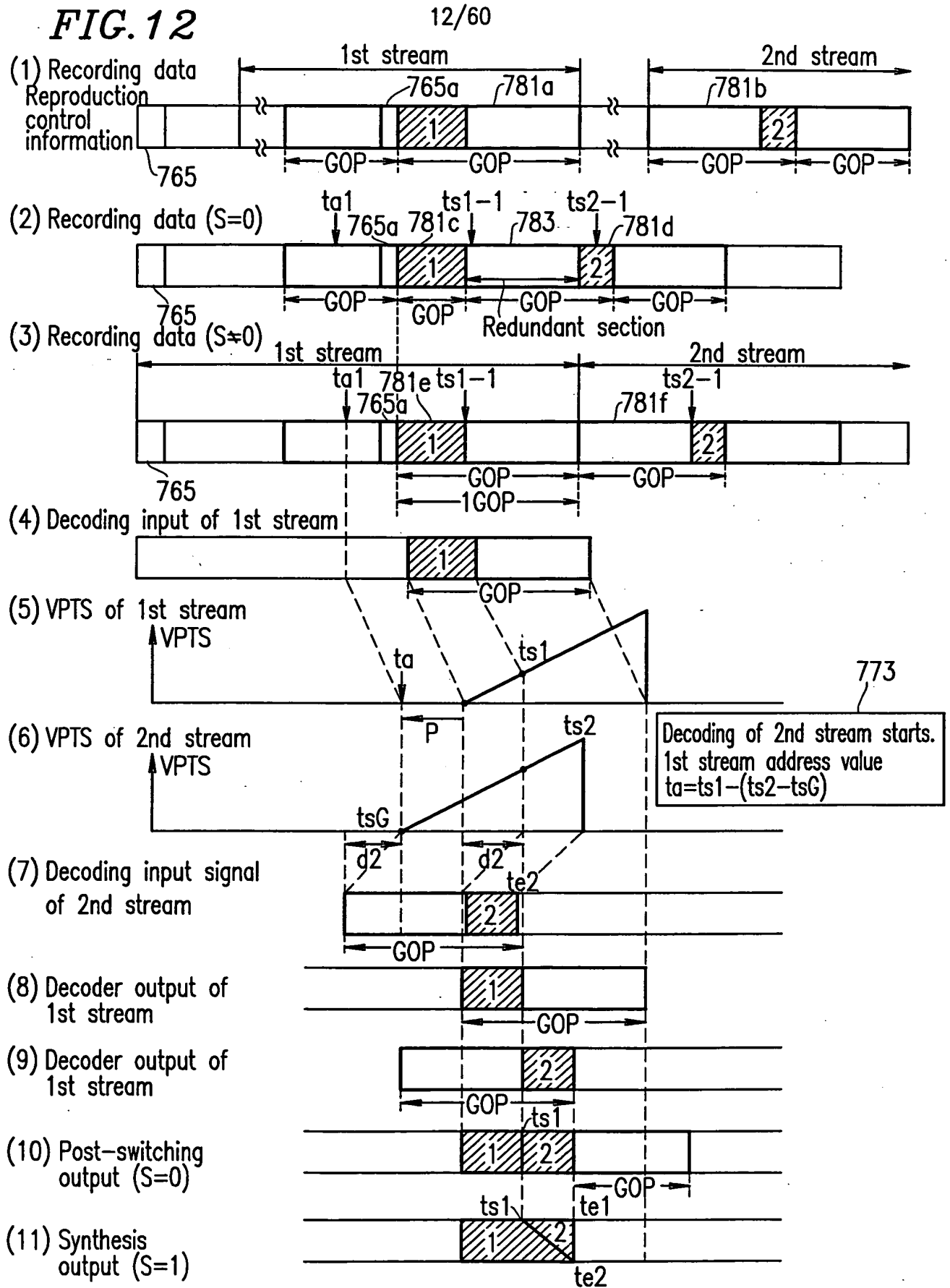
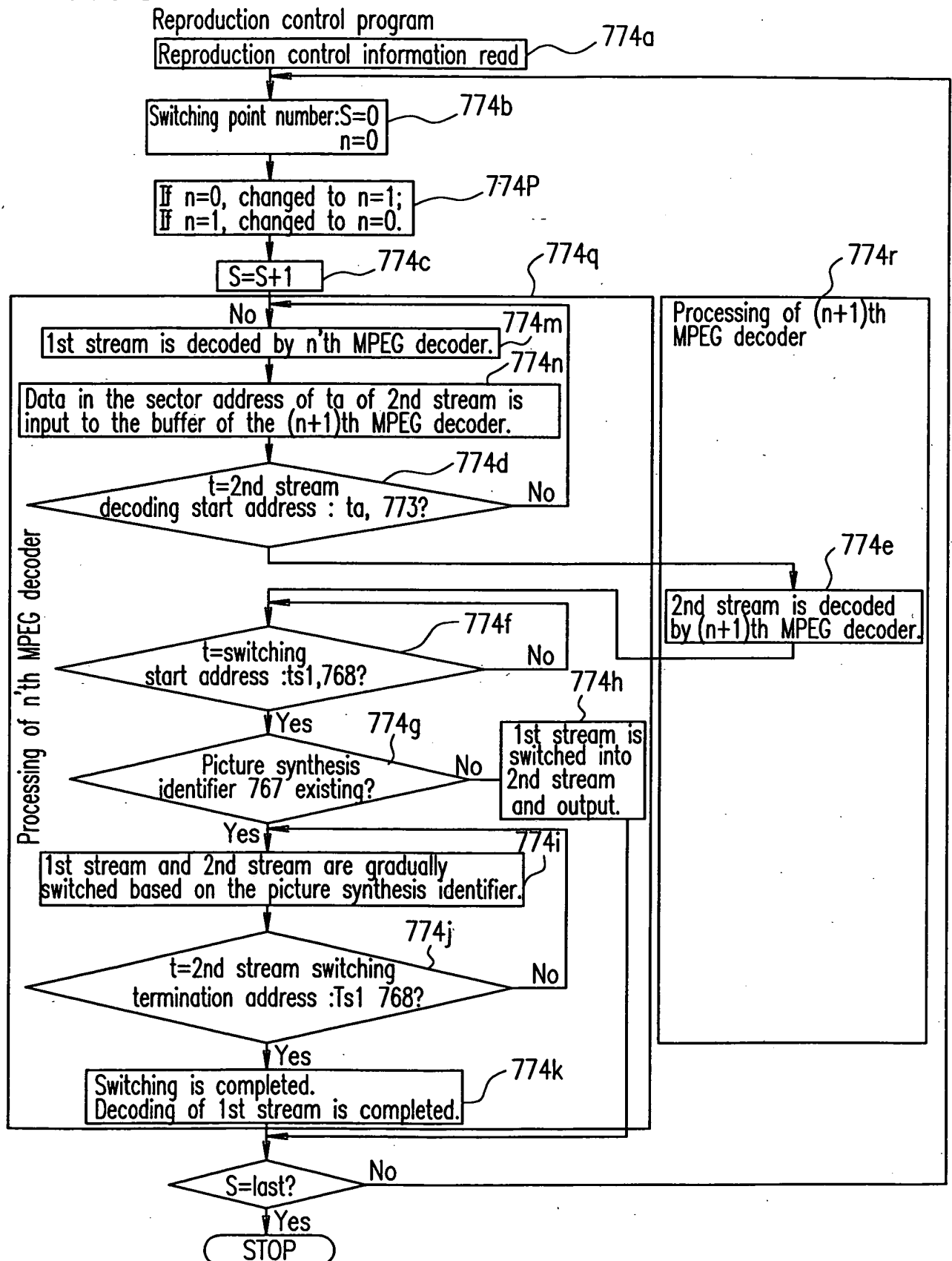


FIG. 13

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FIG.14

Reproduction control information

Switching point number S	Picture synthesis identifier S	767 768		769		770a		771	
		1st stream		2nd stream		765b			
		Switching start address : ts1	Switching termination address : te2	Switching termination address : te2	GOP start address : tsG Sector address:tsGs	Switching start address : ts2 Sector address			
1	None	ts1-1			tsG-1	ts2-1			
2	Mode1	ts1-2		te2-2	tsG-2	ts2-2			
3	Mode2	ts1-3		te2-3	tsG-3	ts2-3			

FIG. 15

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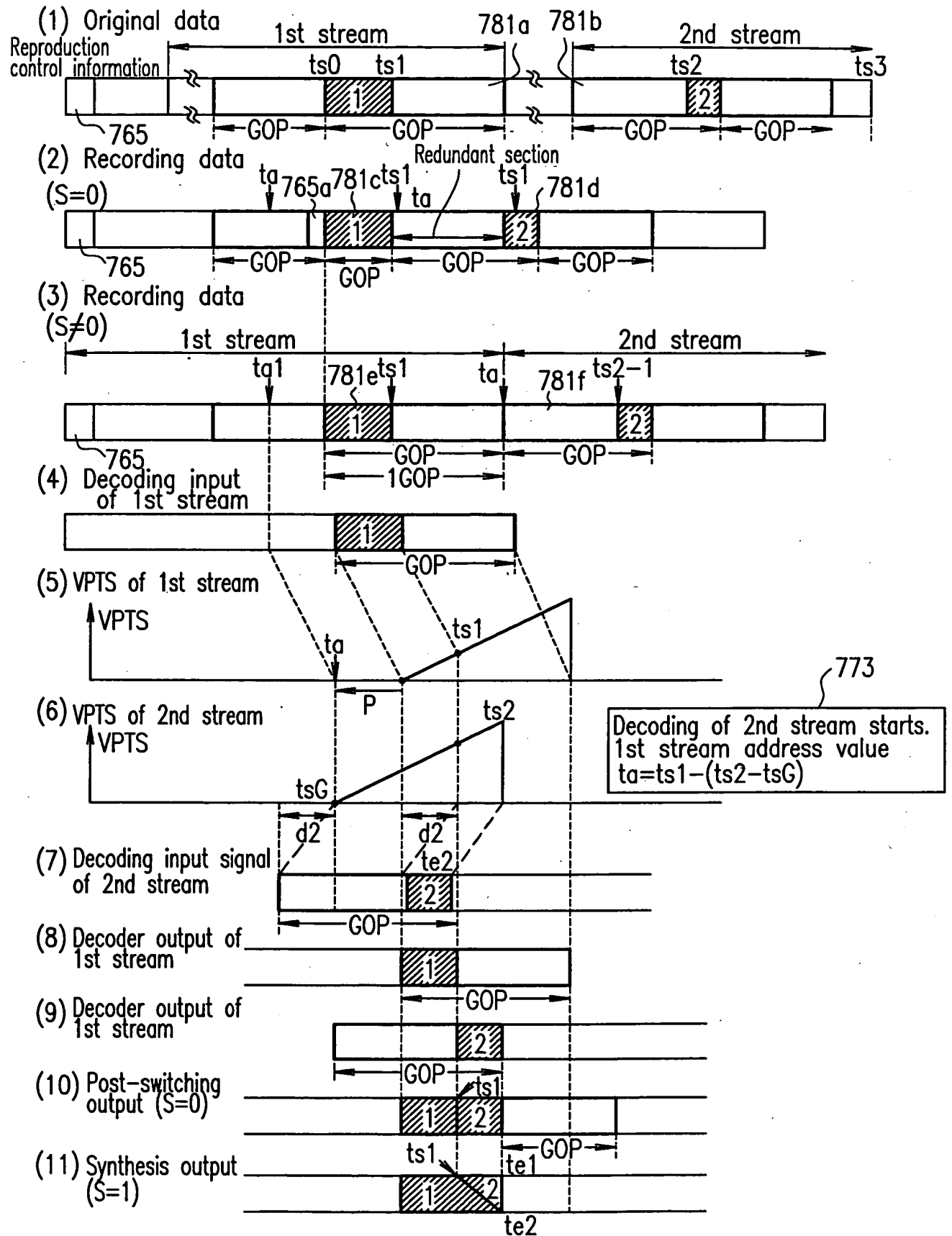


FIG. 16

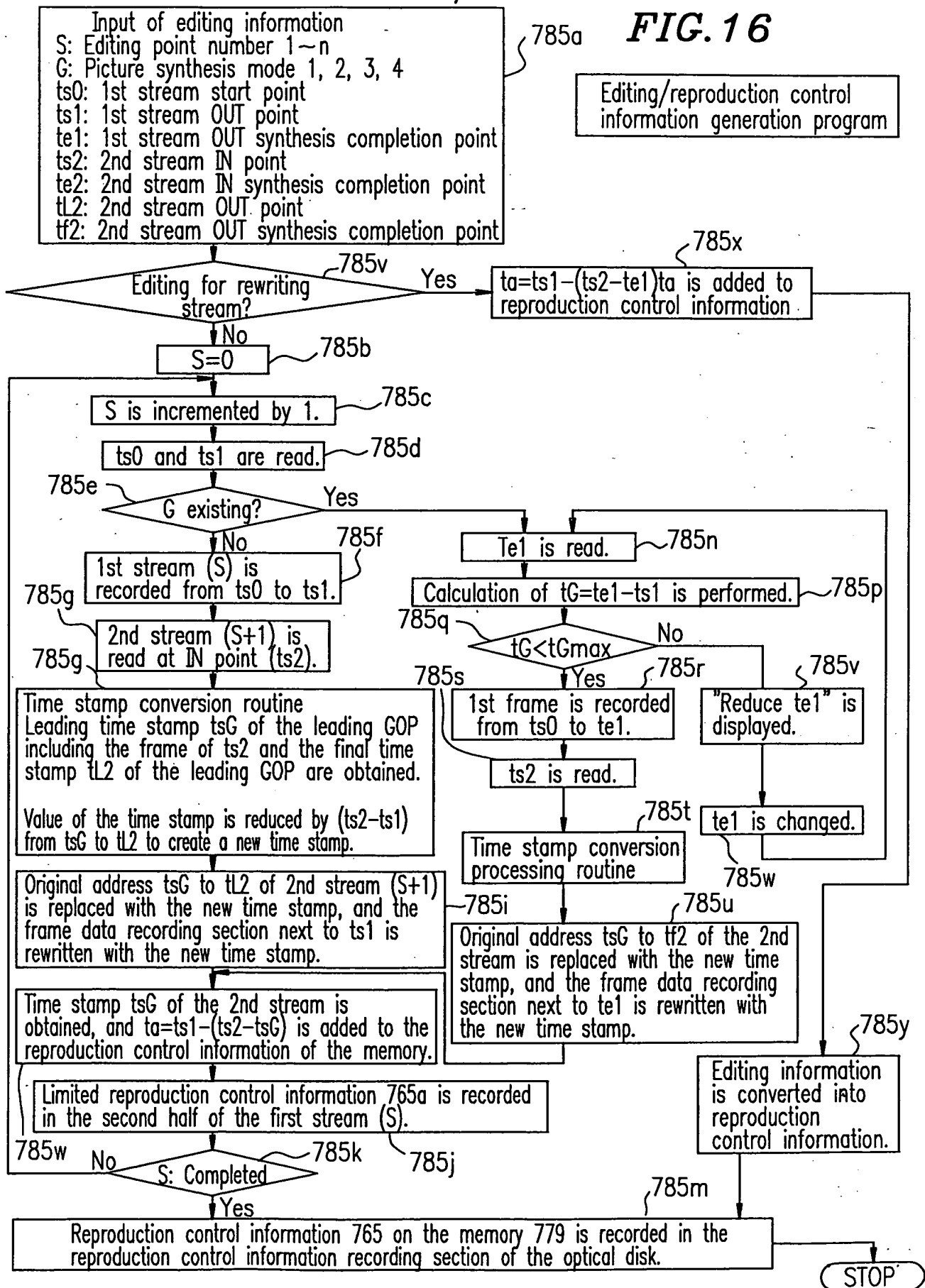


FIG. 17

Progressive/3D image arrangement information
(resolution/picture identification information)

83 ~		TXIDT file		PGC file in each VTS				744 ~	
VTS (title)	Cell	TXIDT information		Angle	Start address	Termination address	Identification information		14
		Attribute	Number of multiple angles						
1	1, 2	3D Cell1, 2	2	1 Main 2 Sub	a1 a2	a3 a4	3D-right 3D-left		
	1, 2	3D Cell1, 2	2	1 Main 2 Sub	a5 a6	a7 a8	3D-right 3D-left		
2	3, 4	Progressive 480P X multiple angles (Cell1, 2)	4	1 Main 2 Sub 3 Main 4 Sub	a9 a10 a13 a14	a11 a12 a15 a16	1-480P-main 1-480P-sub 2-480P-main 2-480P-sub		
3	1, 2	Wide480P (Cell1, 2)	2	1 Main 2 Sub	a17 a18	a19 a20	Wide480i-main Wide480i-sub		
4	1, 2	Wide480P	4	1 Main 2 Sub 3 Main 4 Sub	a21 a23 a25 a27	a22 a24 a26 a28	Wide480P-main main Wide480P-main sub Wide480P-sub main Wide480P-sub sub		
5	1, 2 3, 4	3D480P	4	1 Main 2 Sub 3 Main 4 Sub	a29 a31 a33 a35	a30 a32 a34 a36	Right480P-main Right480P-sub Left480P-main Left480P-sub		
6	1, 2	720P (24fps)	2	1 Main 2 Sub	a37 a39	a38 a40	720P-main 720P-sub		

FIG. 18

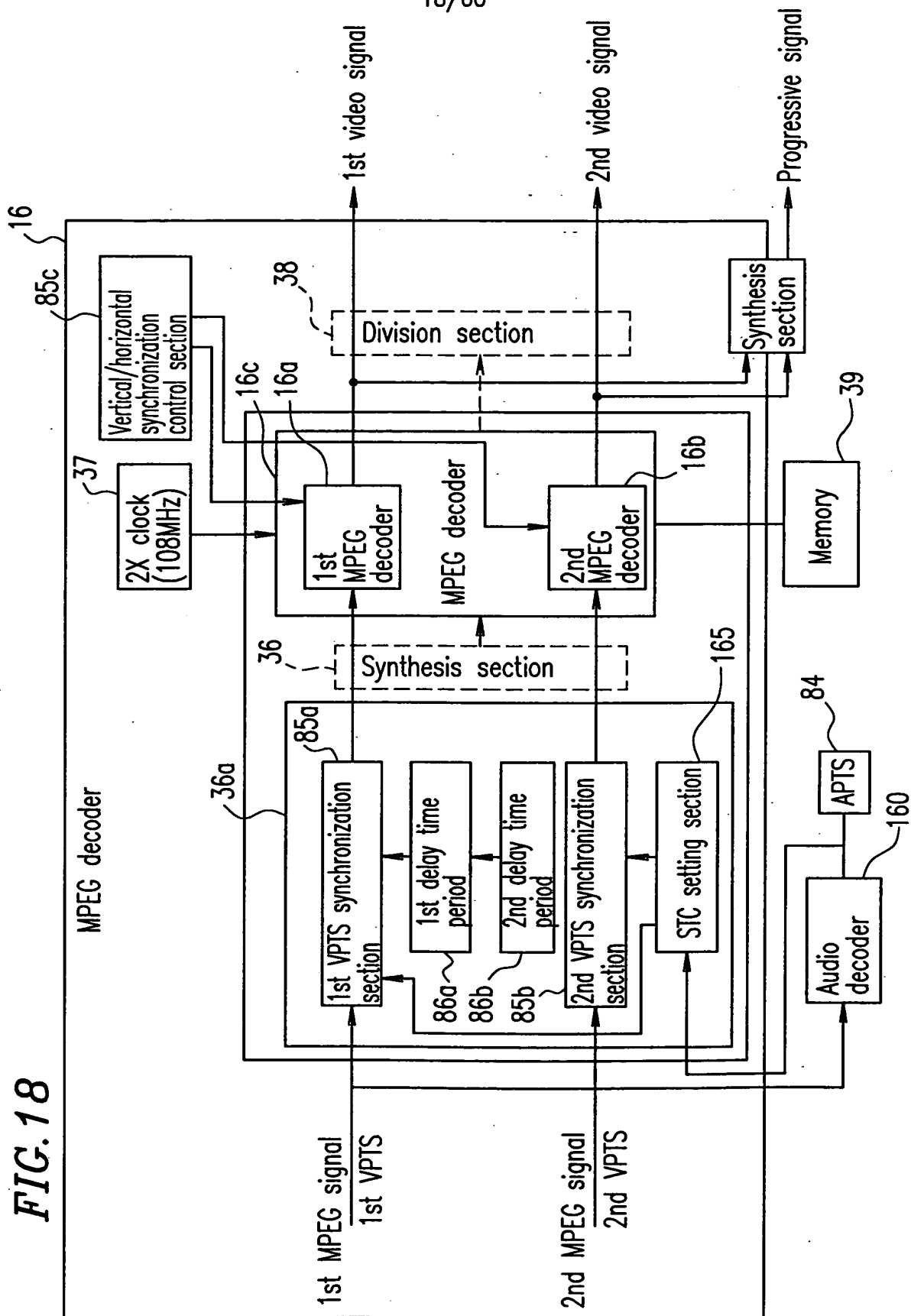


FIG. 19

Principle of multiple angle picture division multiplex recording system (MADM)

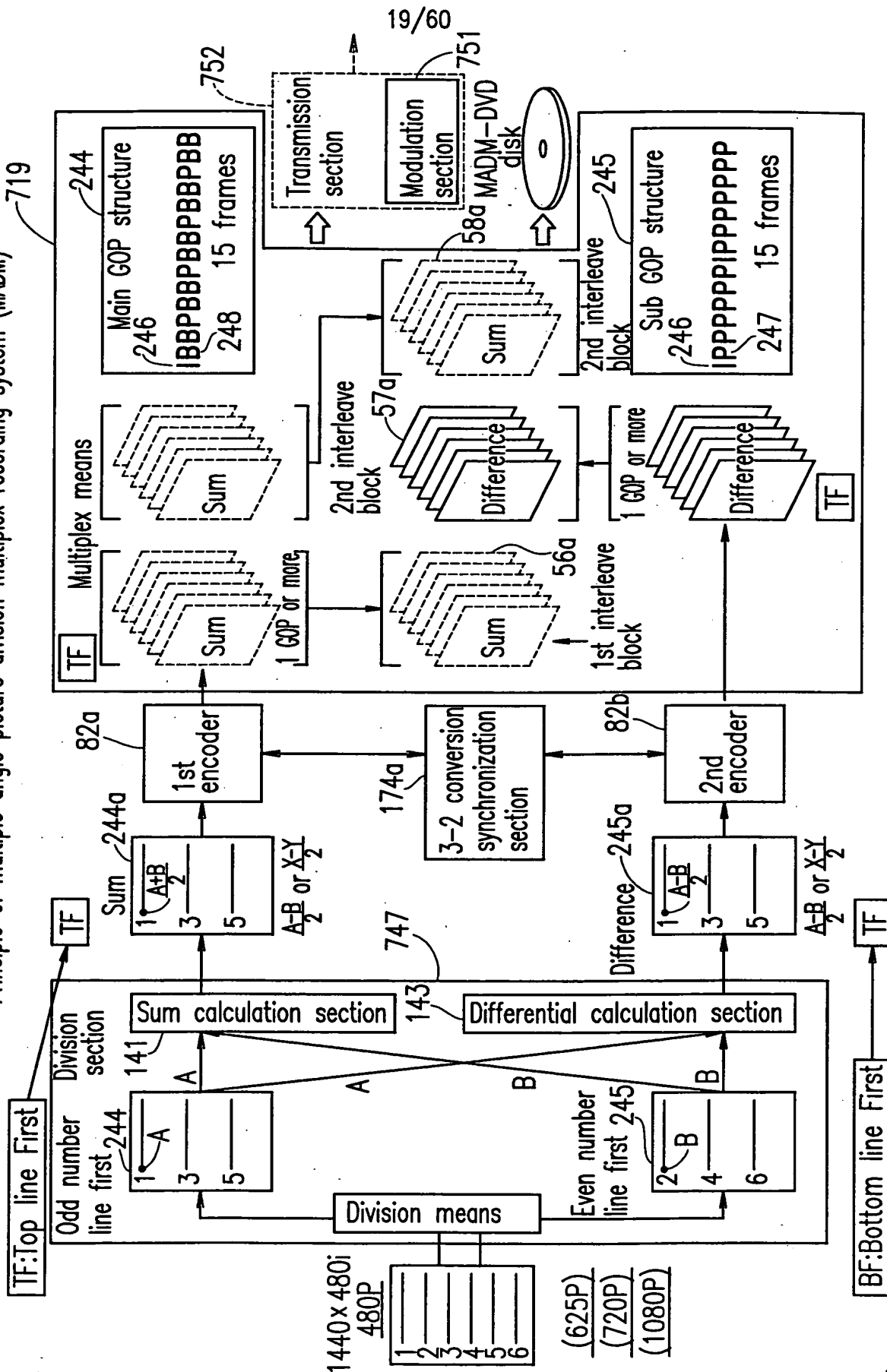


FIG. 20

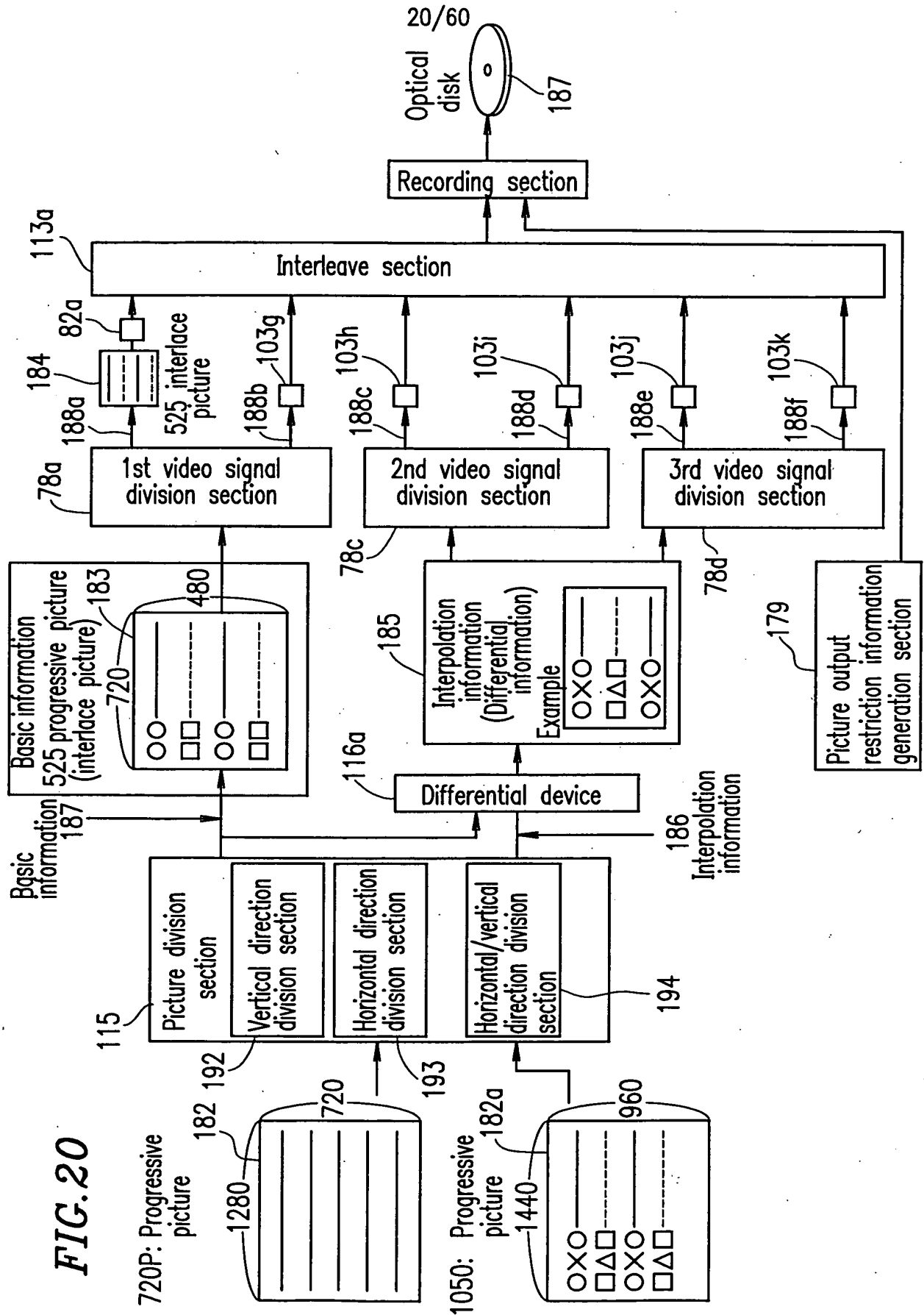


FIG. 21

Principle of multiple angle picture division multiplex system (MADM)

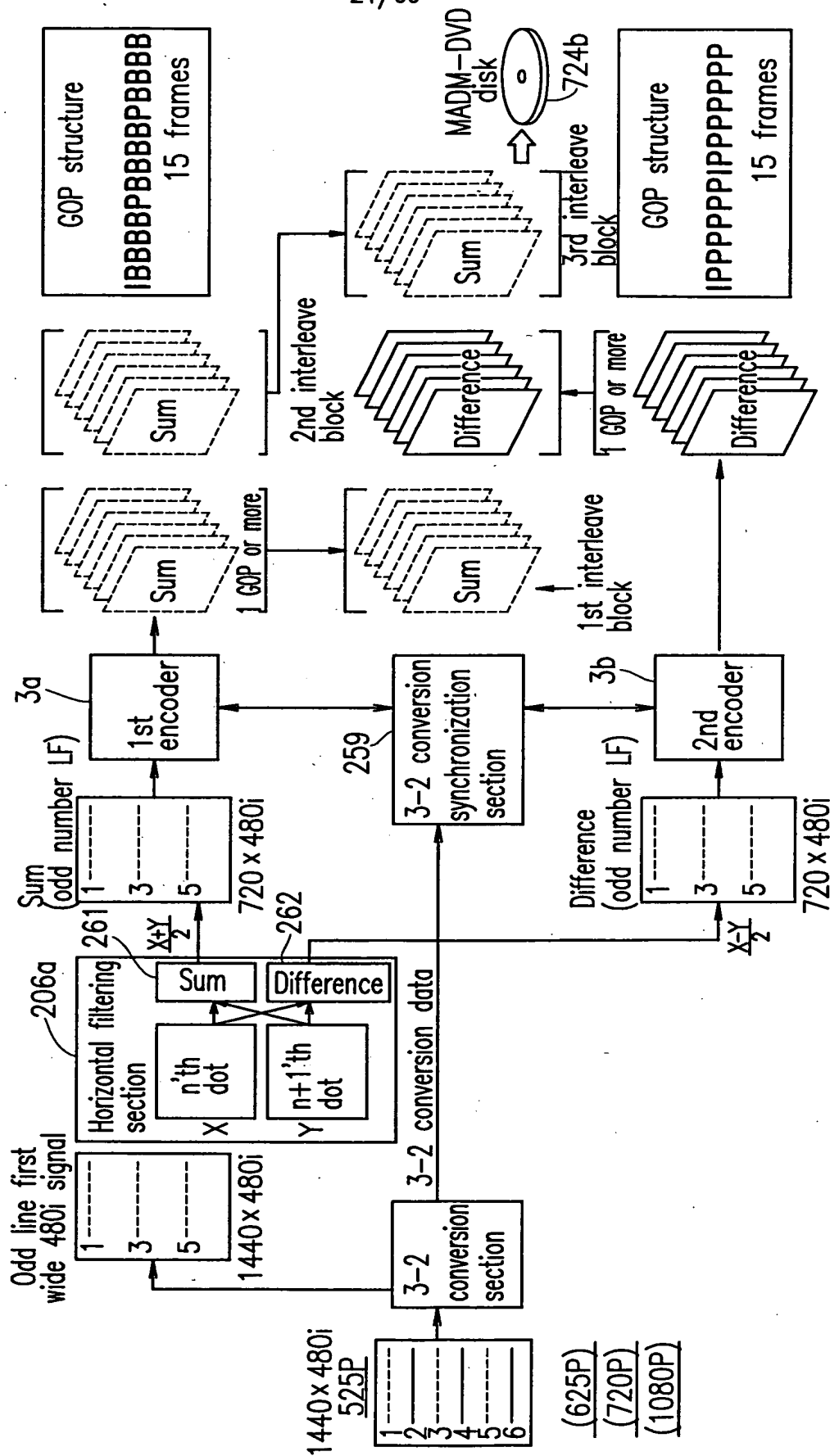
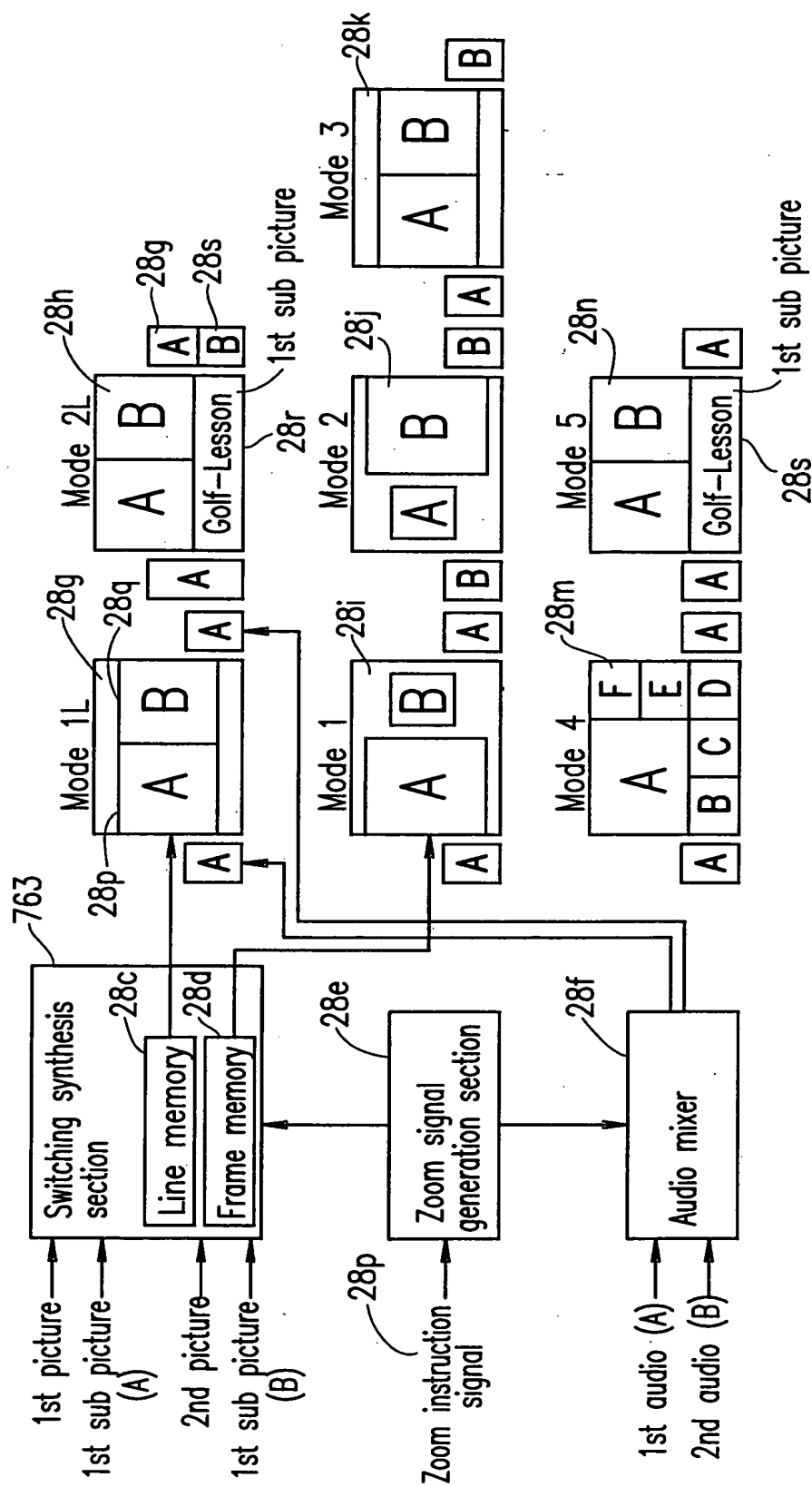


FIG. 22



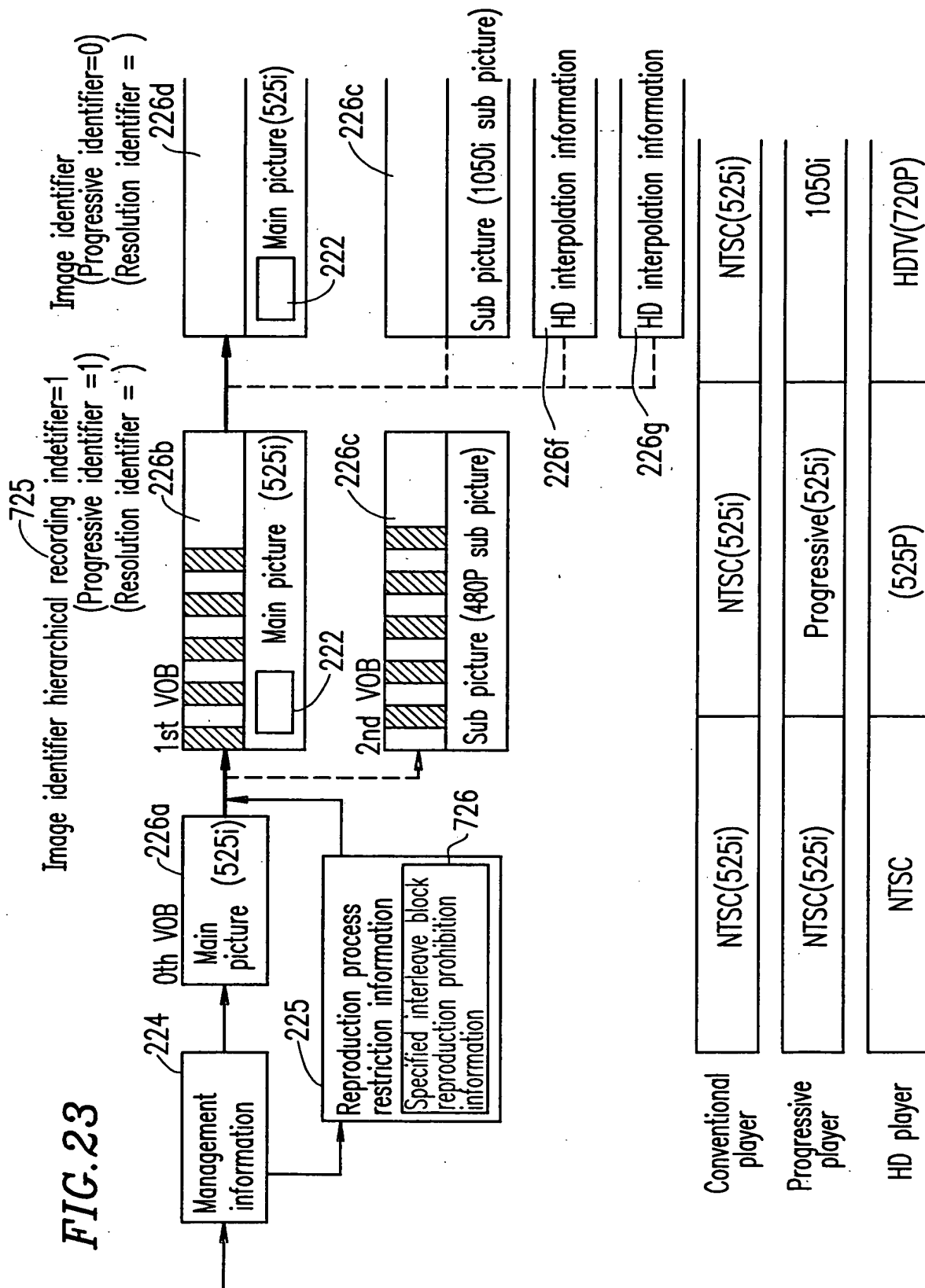
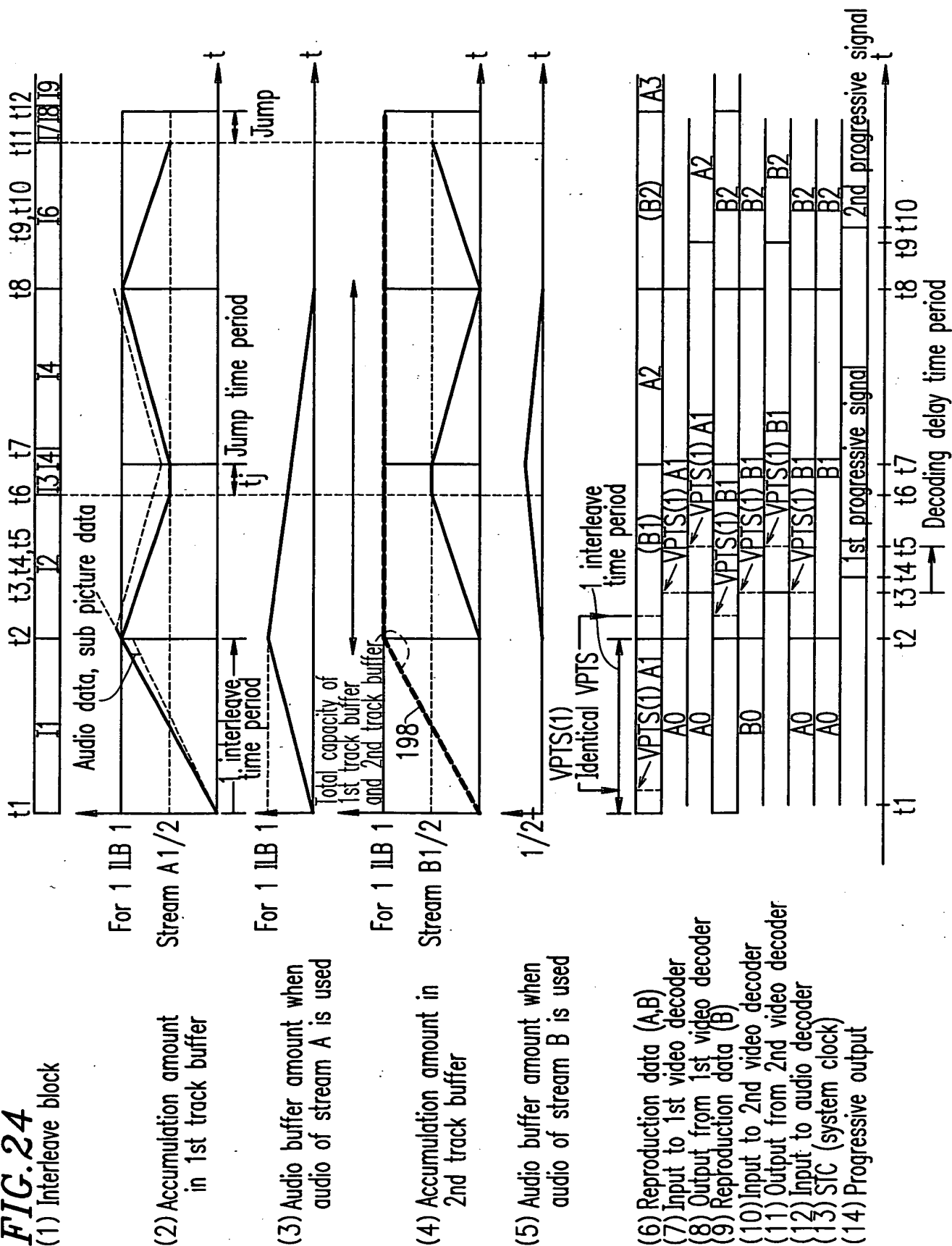


FIG. 24

(1) Interleave block



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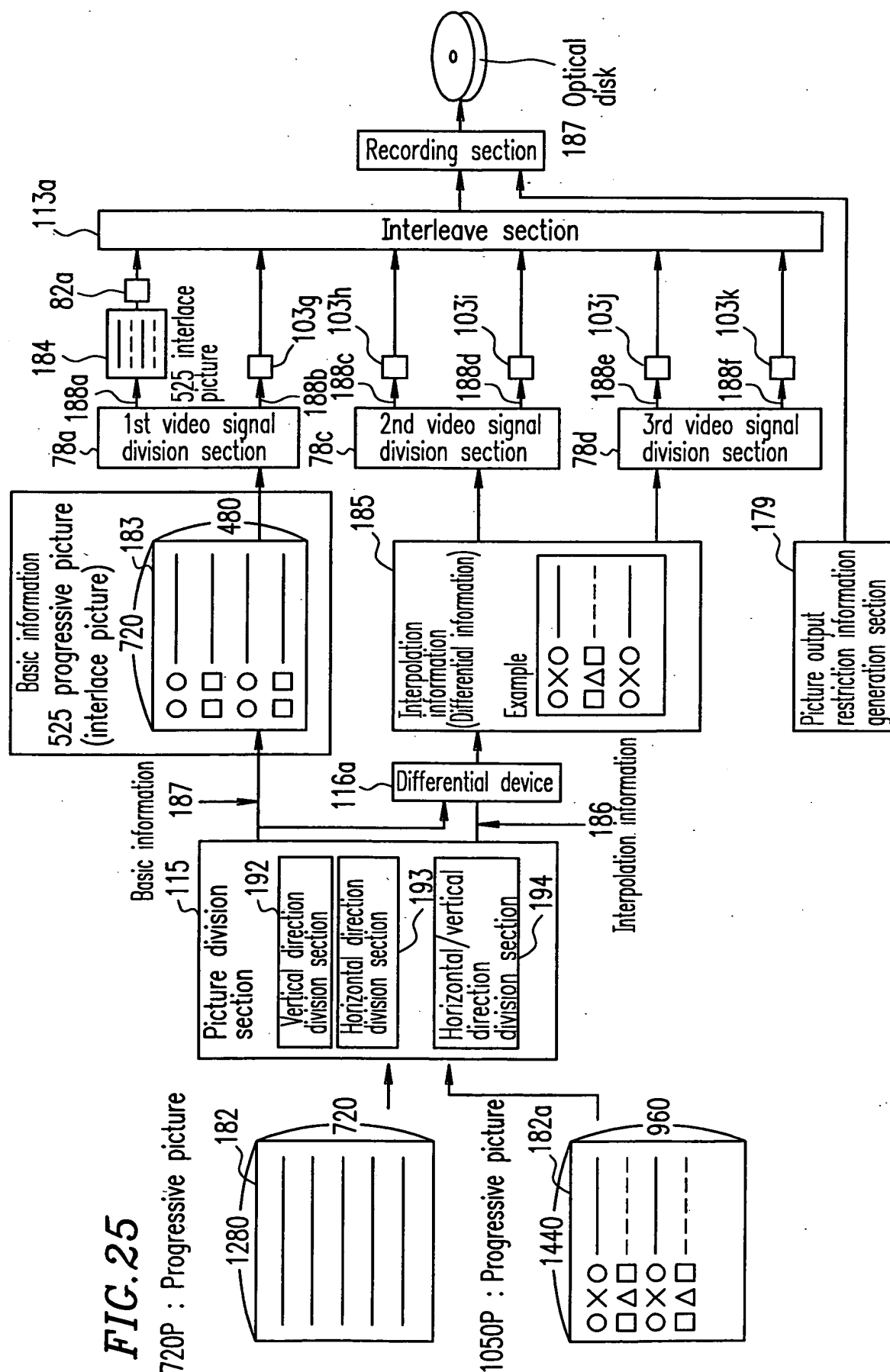


FIG. 26

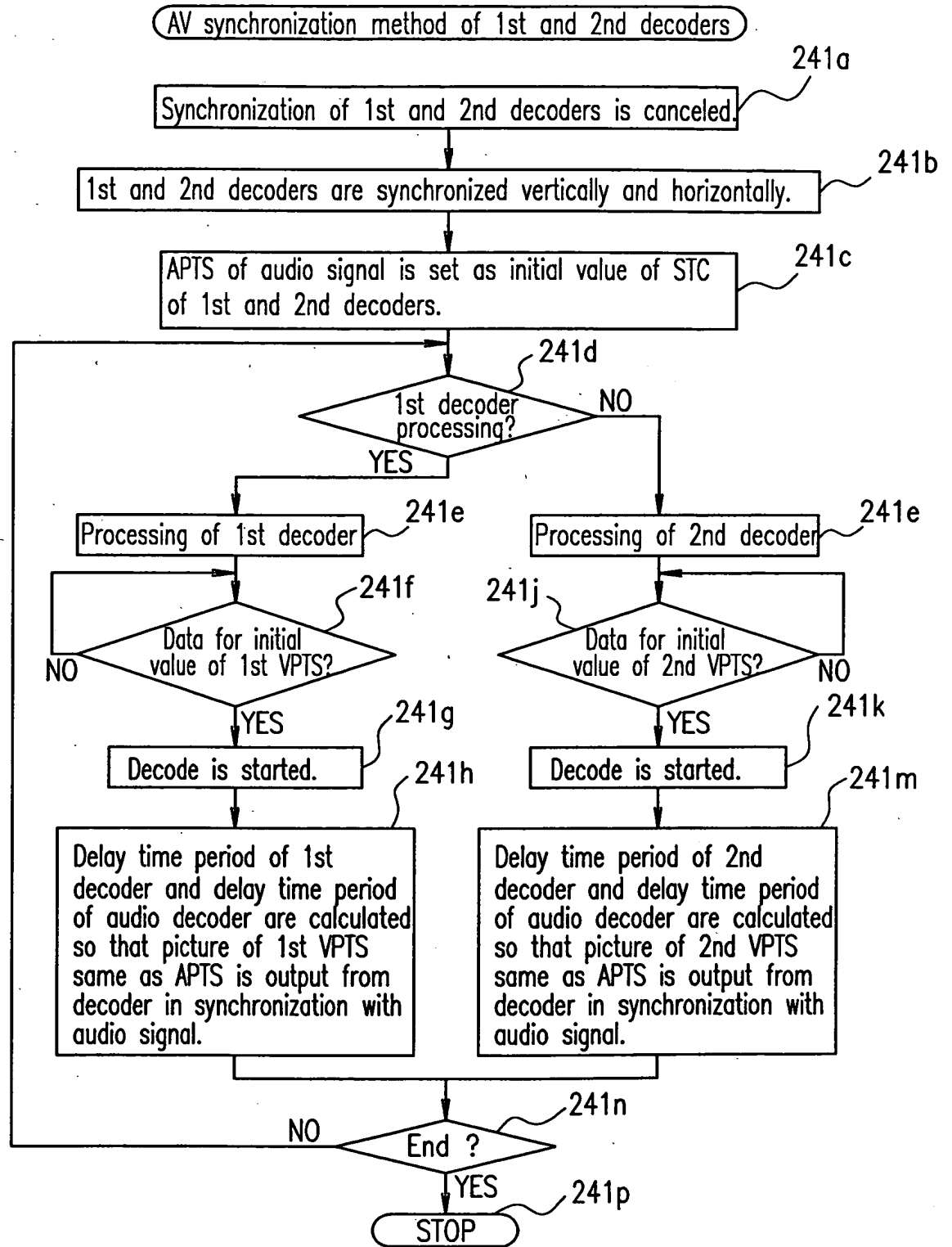
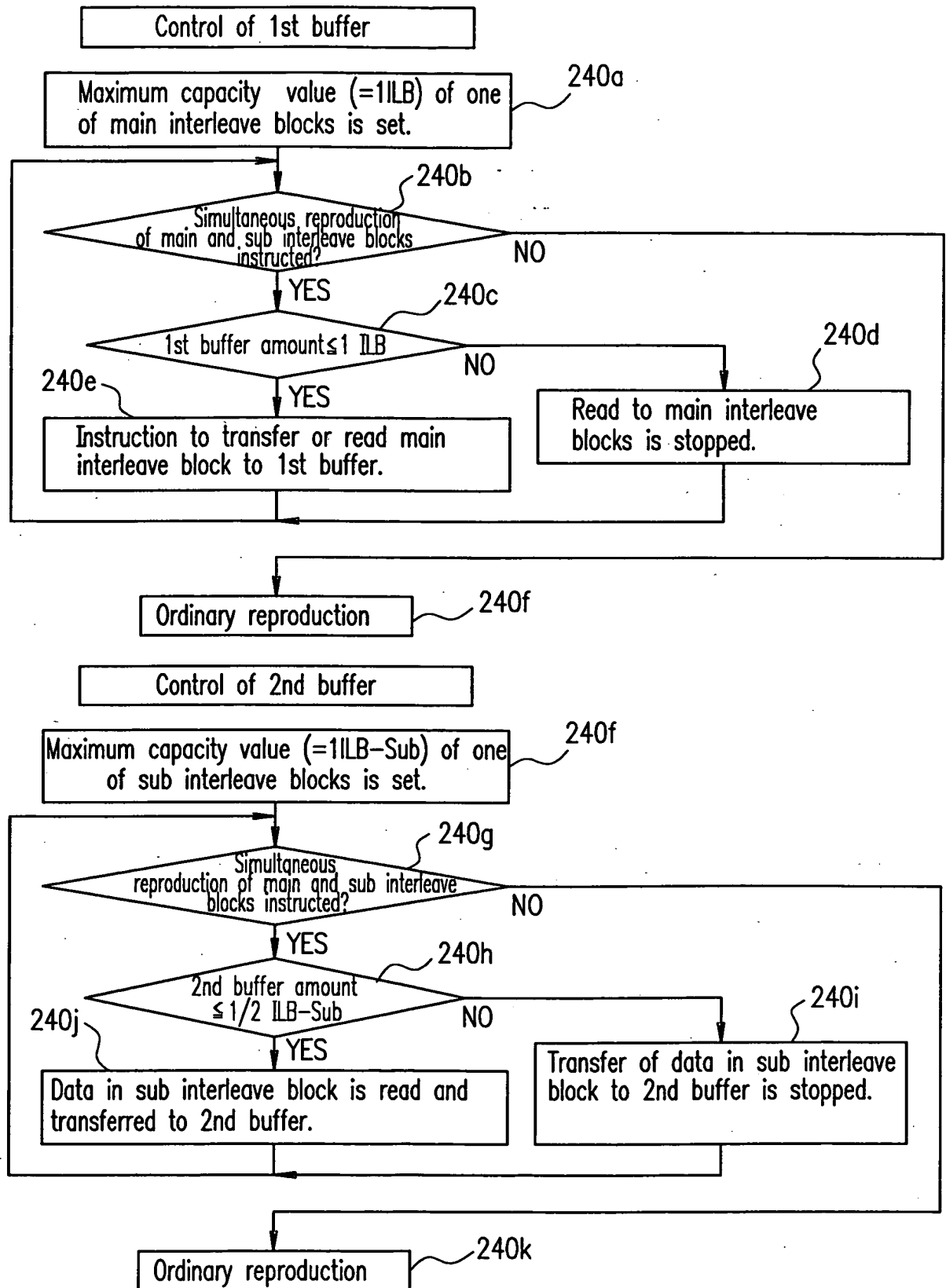


FIG. 27



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FIG. 28

(1) Reproduction data of stream A

(2) Reproduction data of stream B

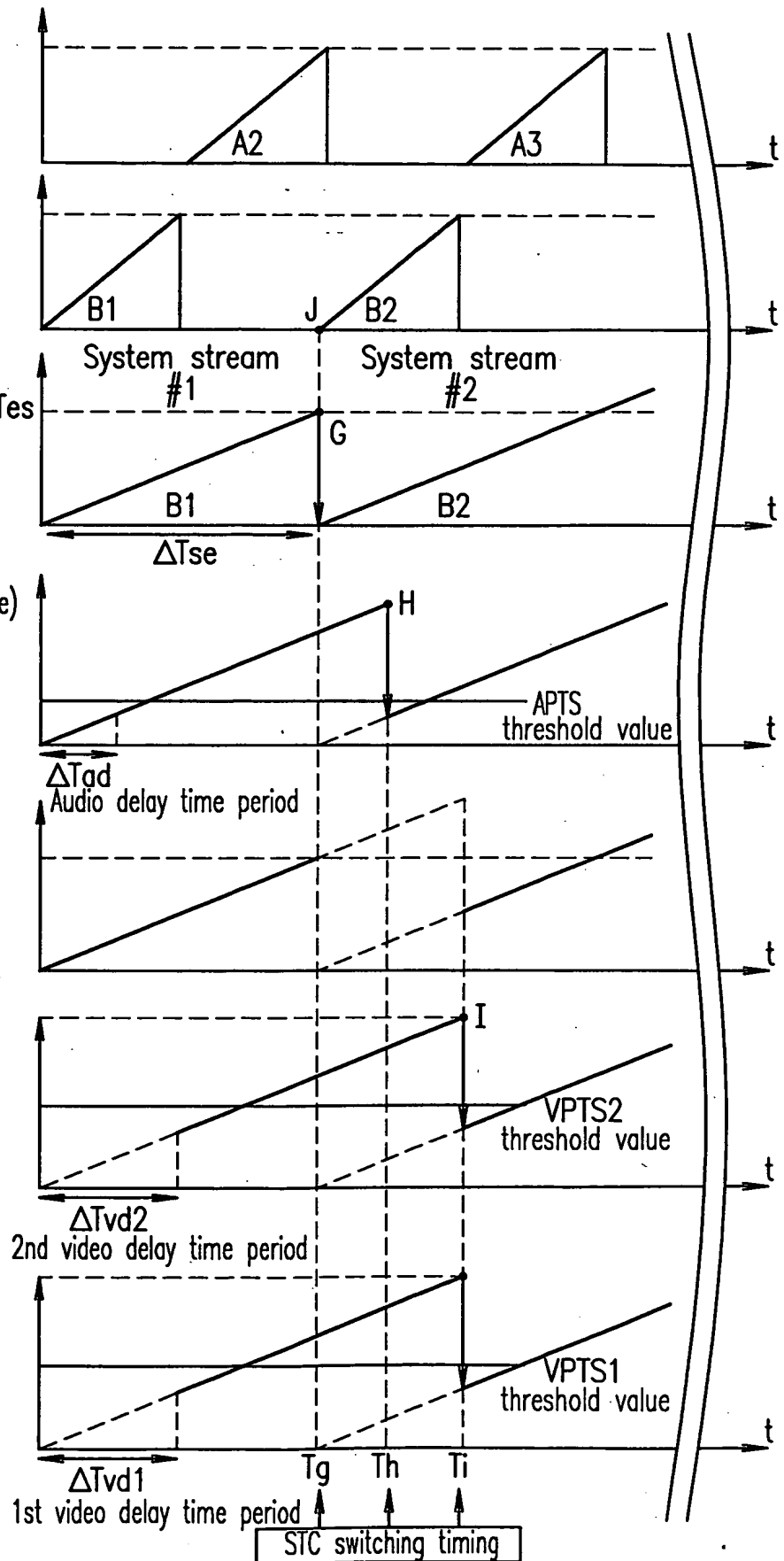
(3) Stream clock (SCR)
Time of input from buffer to decoder

(4) Audio APTS (sub picture)
Reproduction time of audio decoder

(5) System clock
STC

(6) Video VPTS2
Time of reproduction of 2nd video decoder

(7) Video VPTS1
Time of reproduction of 1st video decoder



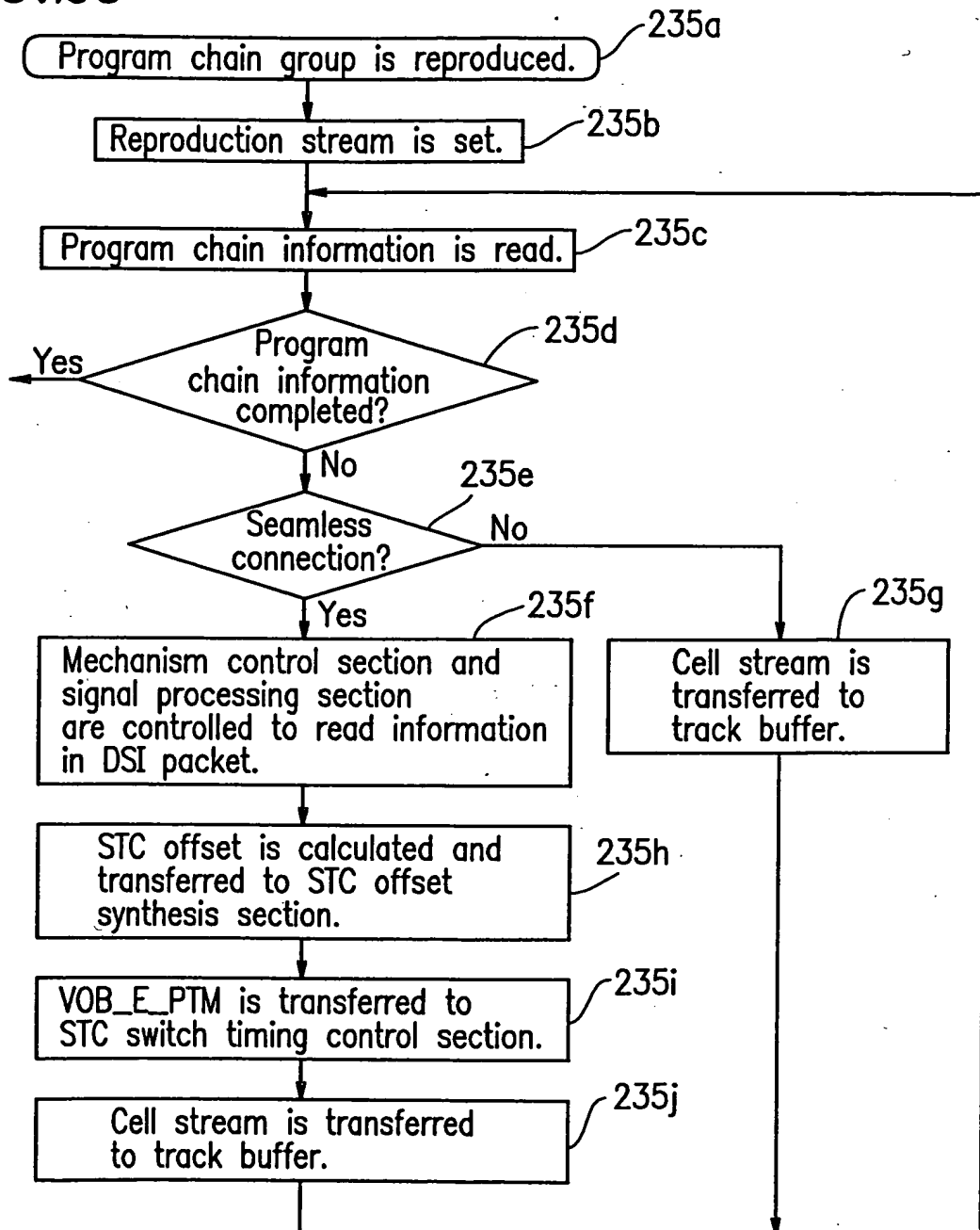
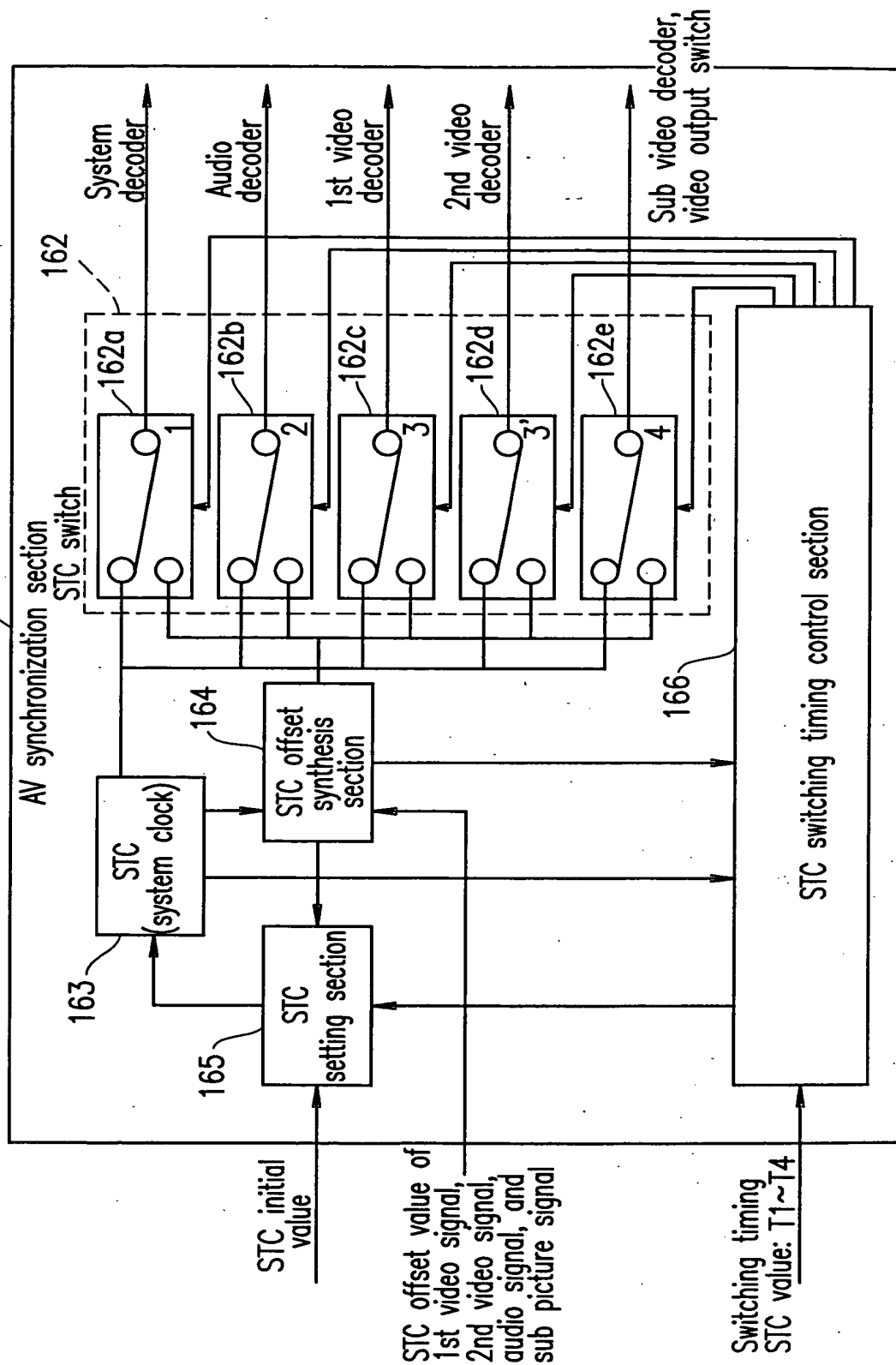
[illegible]

FIG. 30



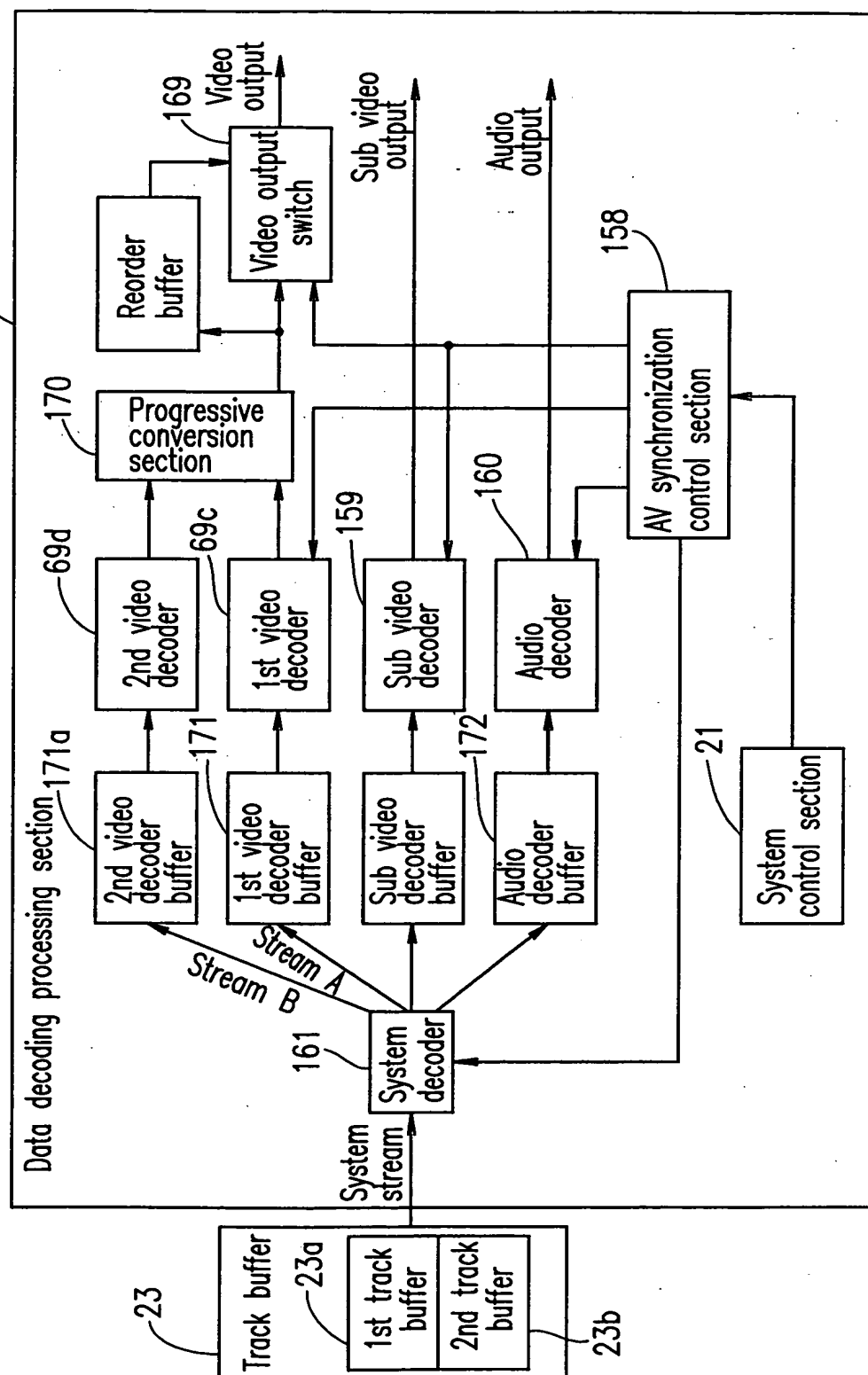
[illegible]

FIG. 32

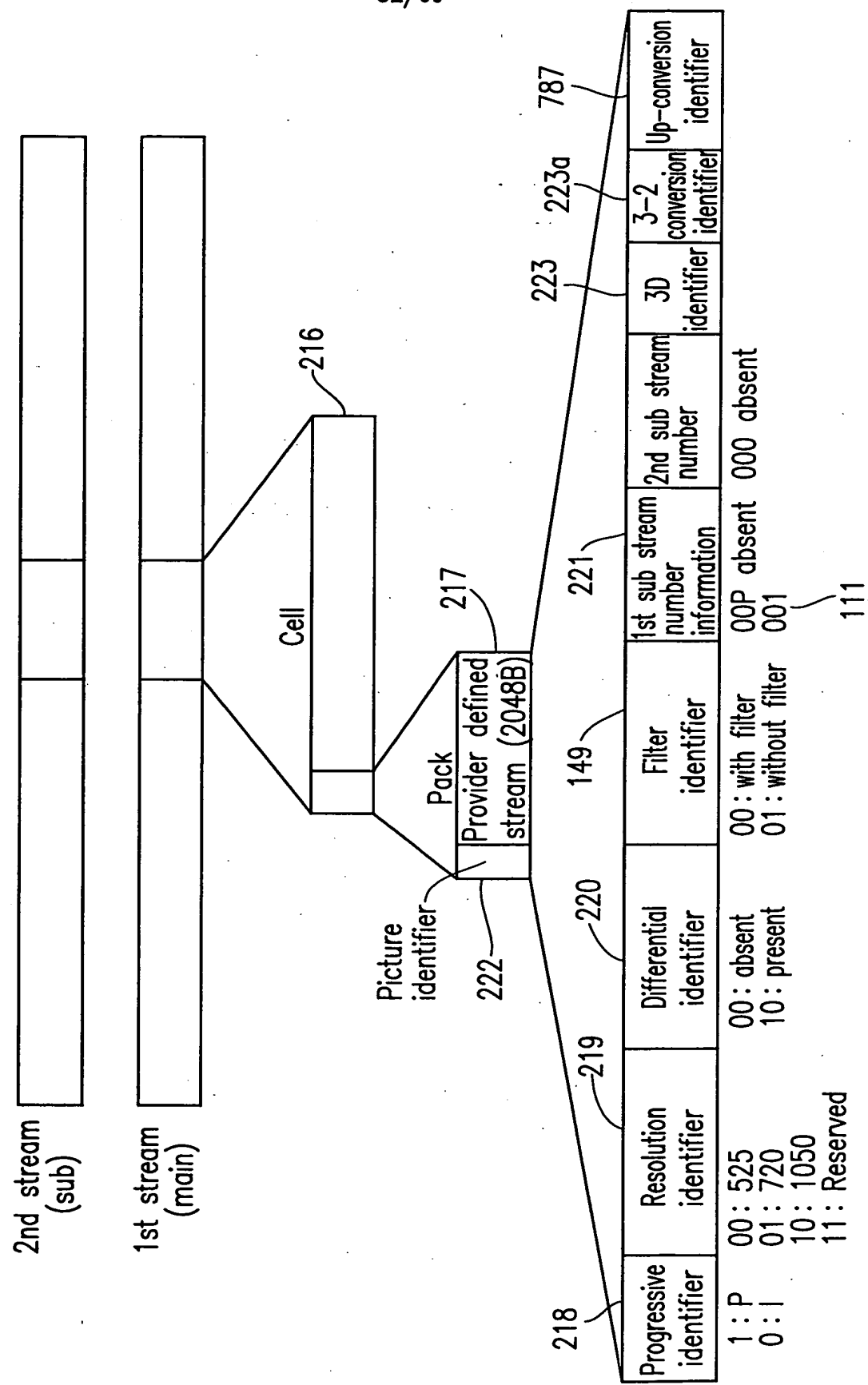
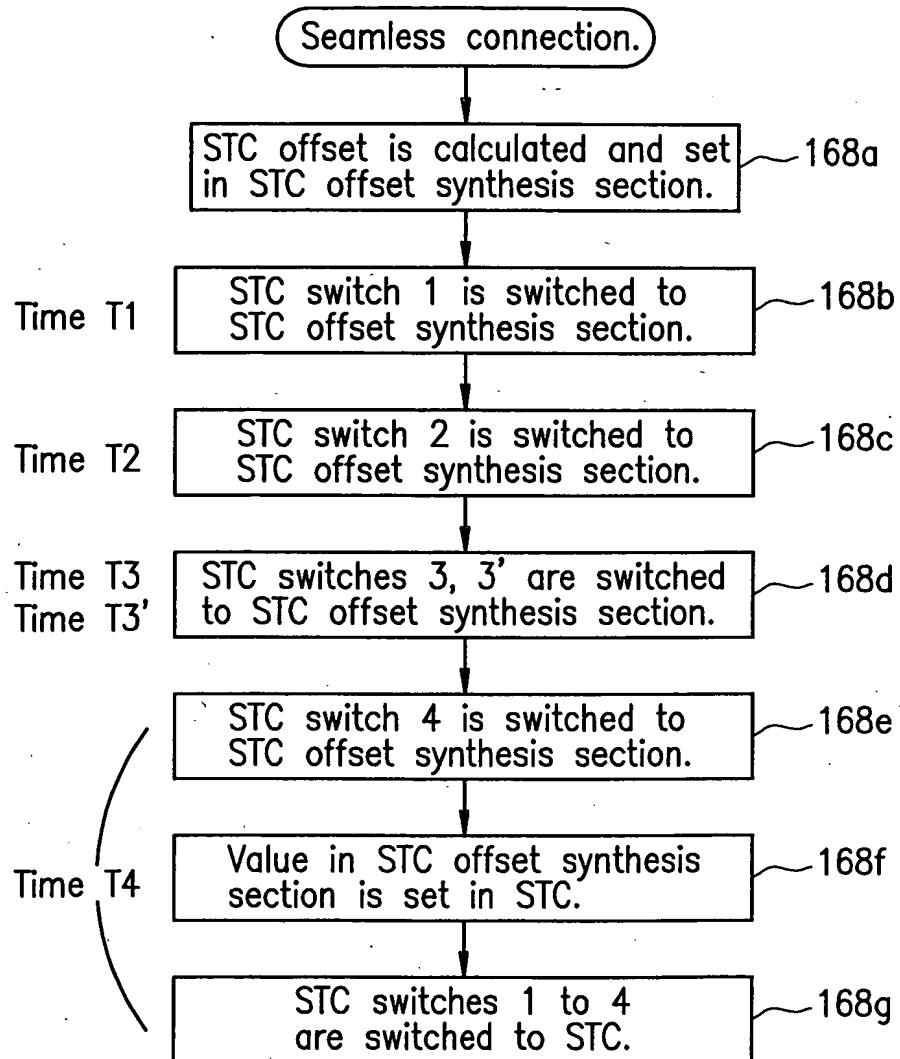


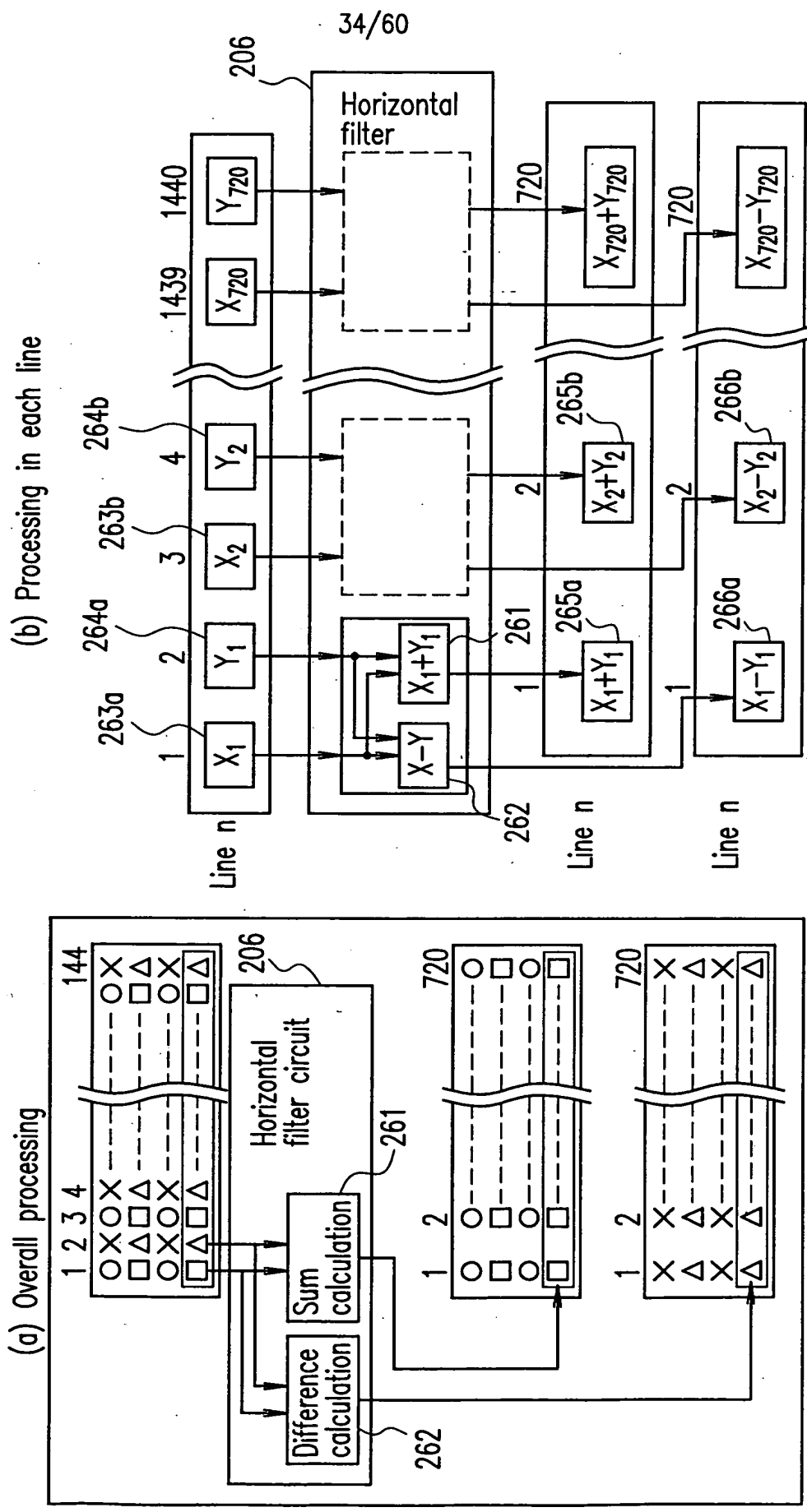
FIG. 33



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FIG. 34



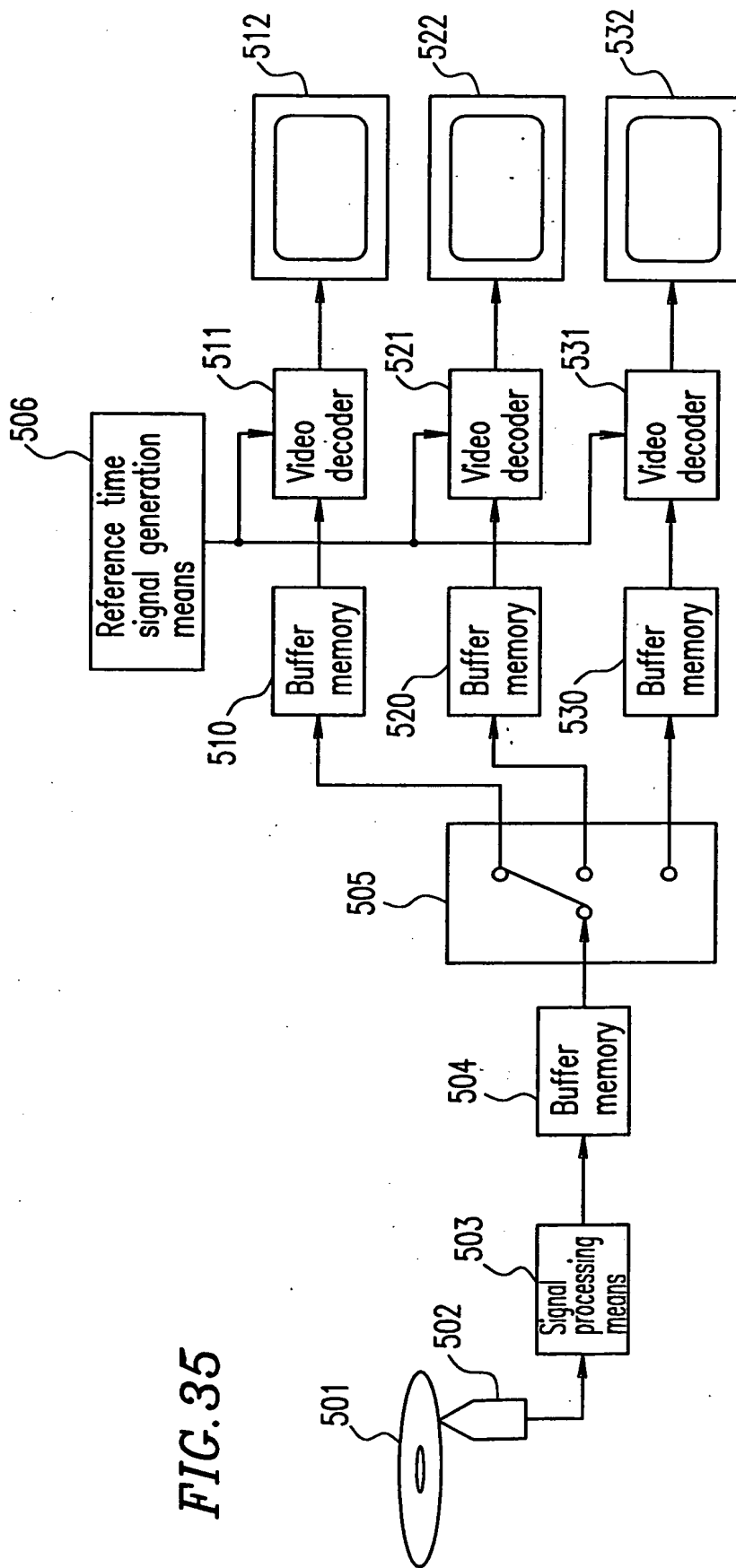
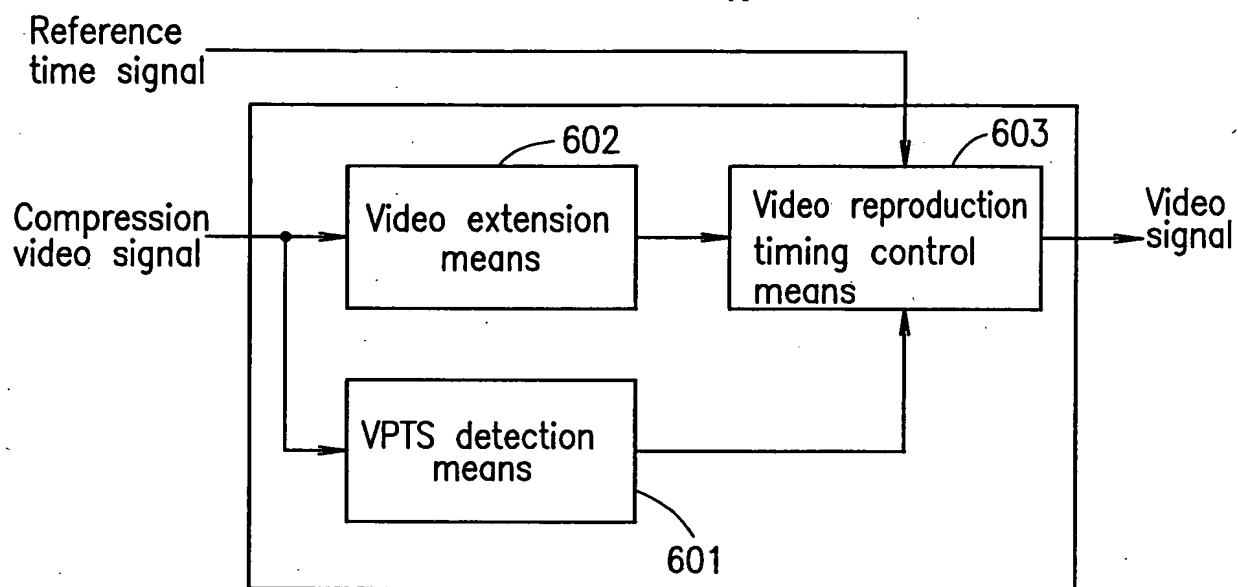


FIG. 35

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FIG. 36



005050-62593460

FIG. 37

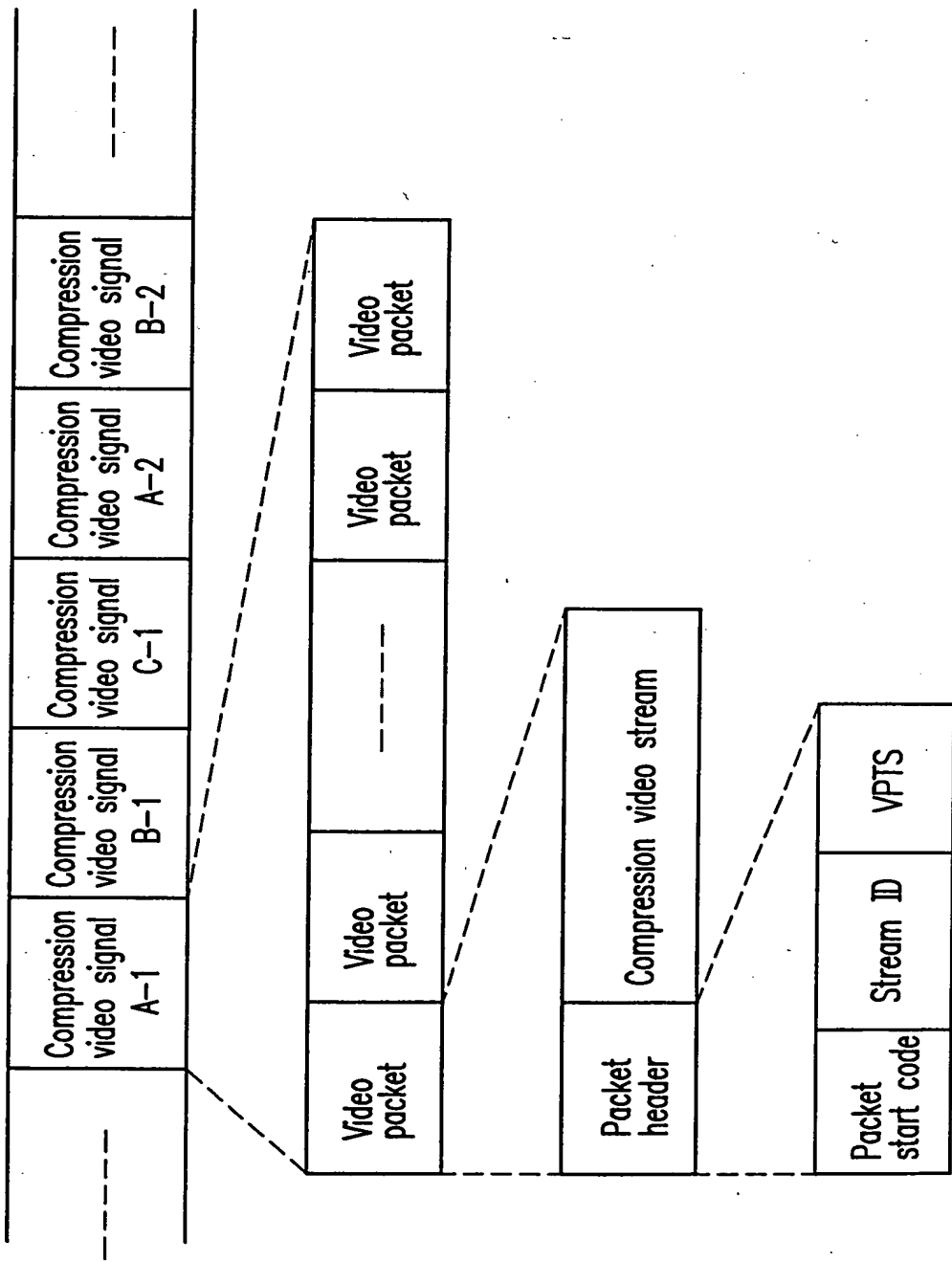
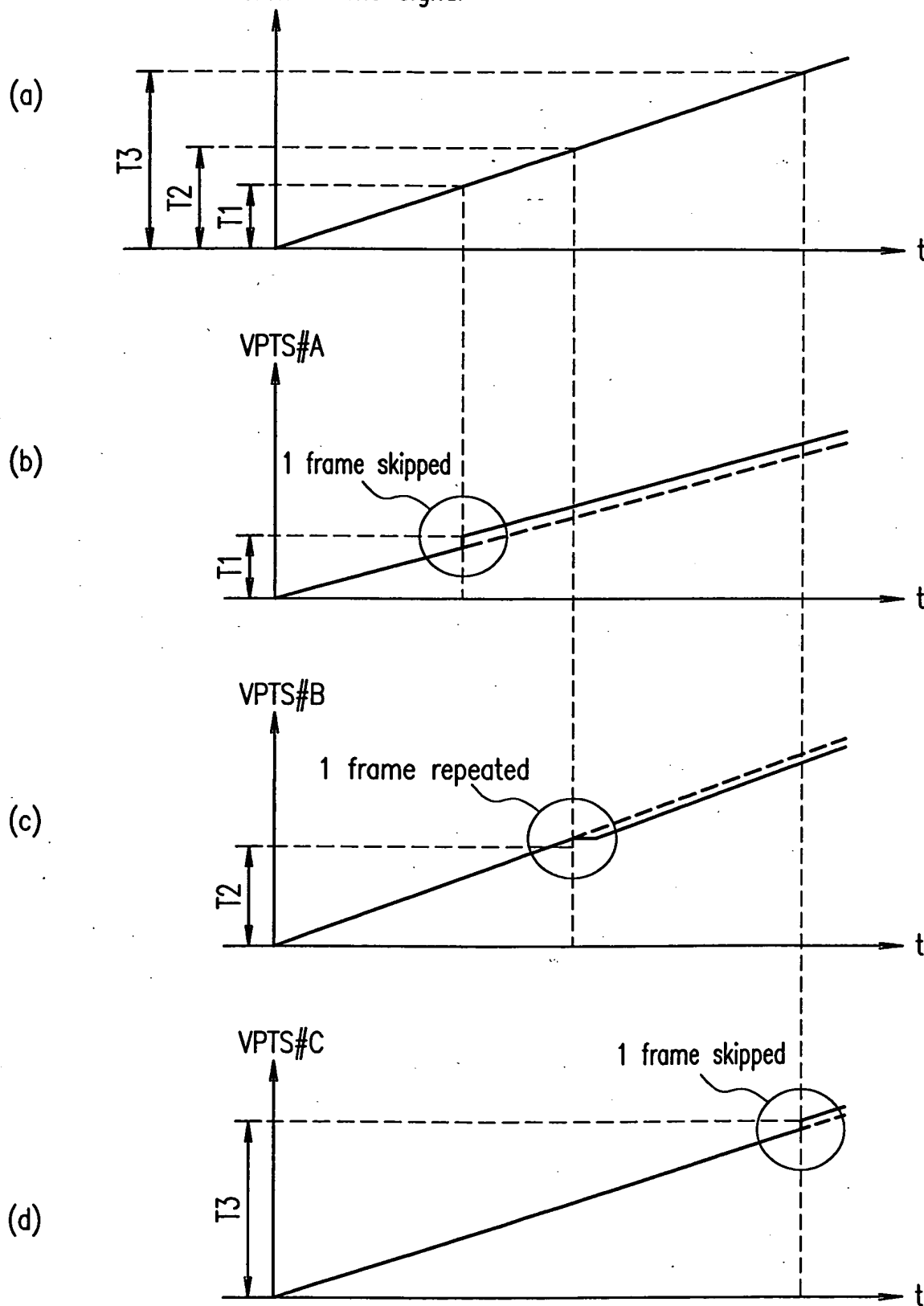


FIG. 38

Reference time signal



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0005 FEB 03

FIG. 39

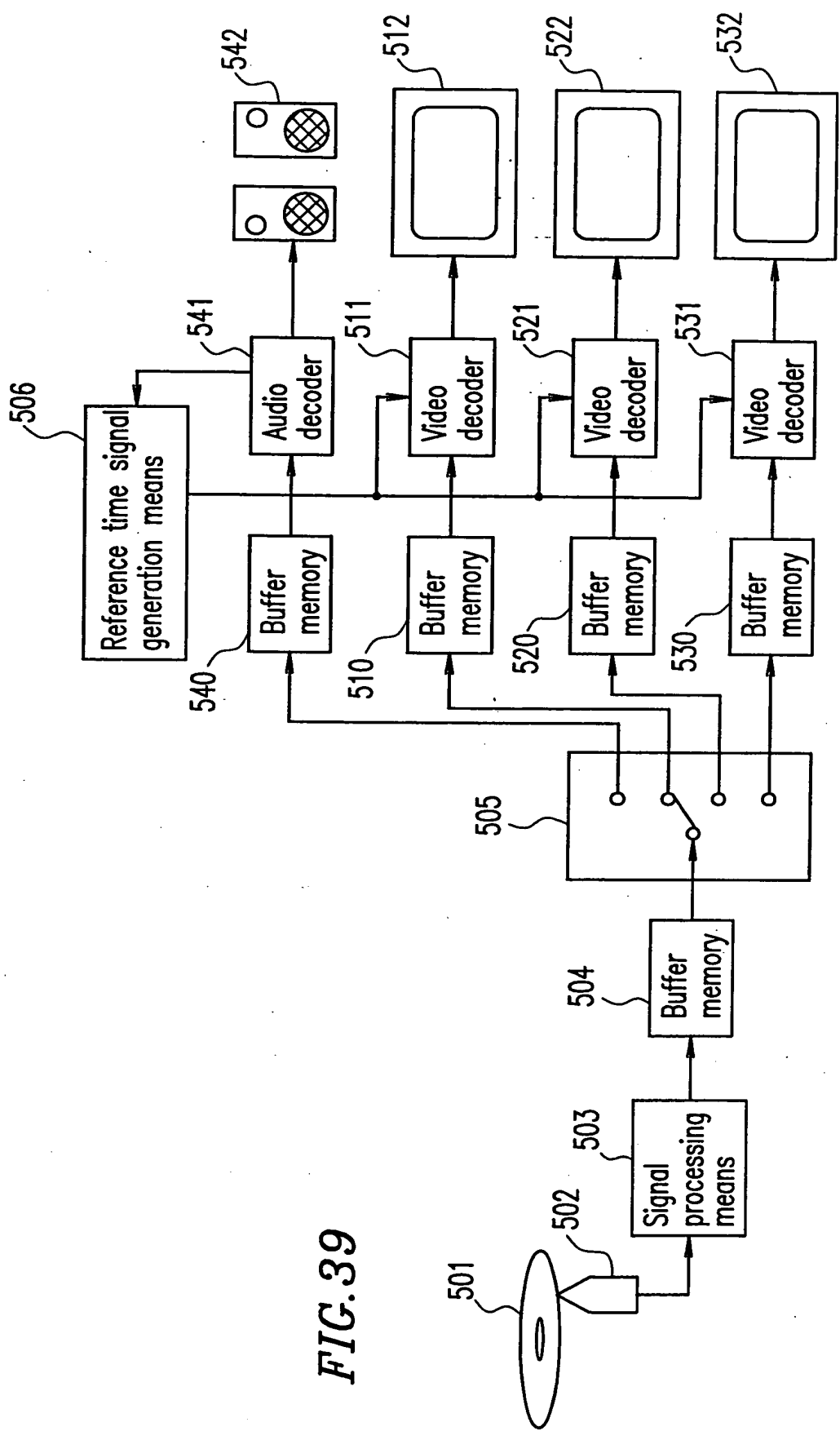
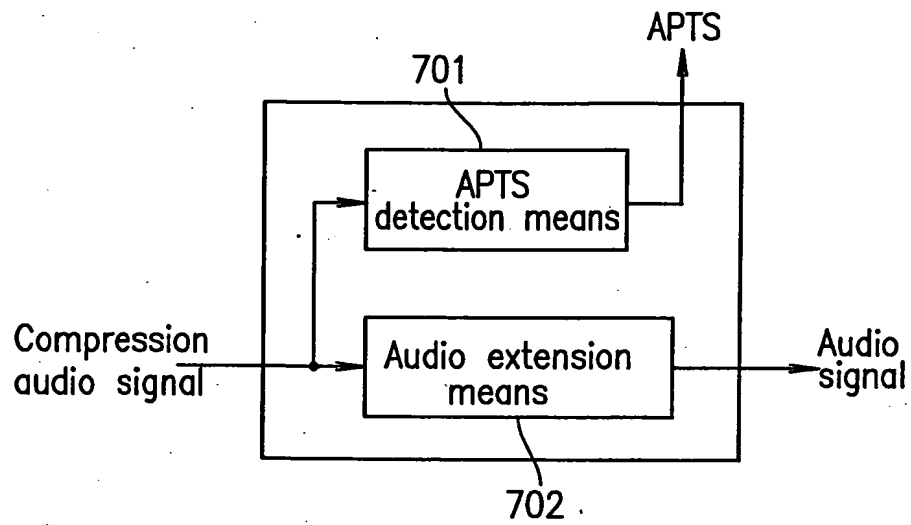


FIG. 40



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FIG. 41

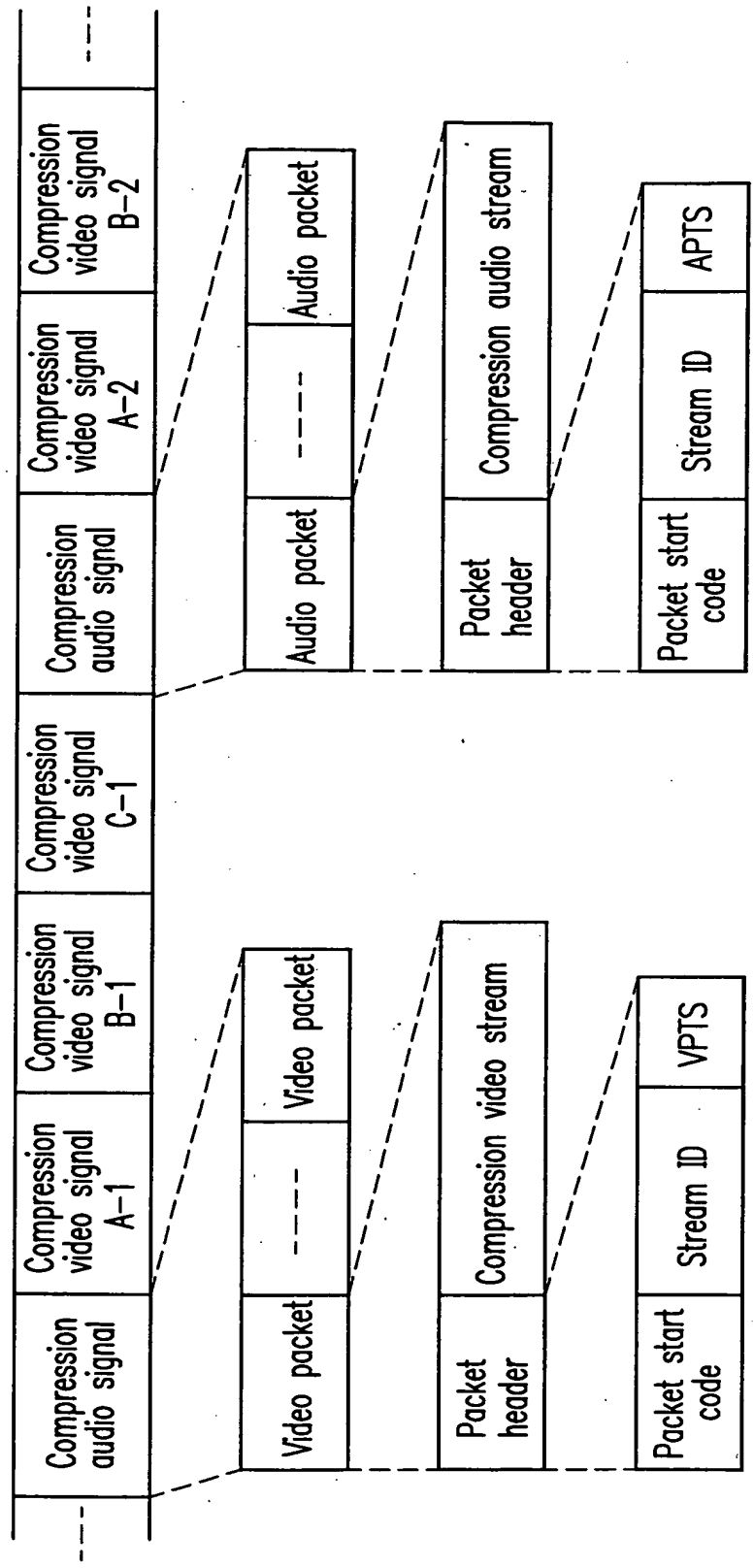
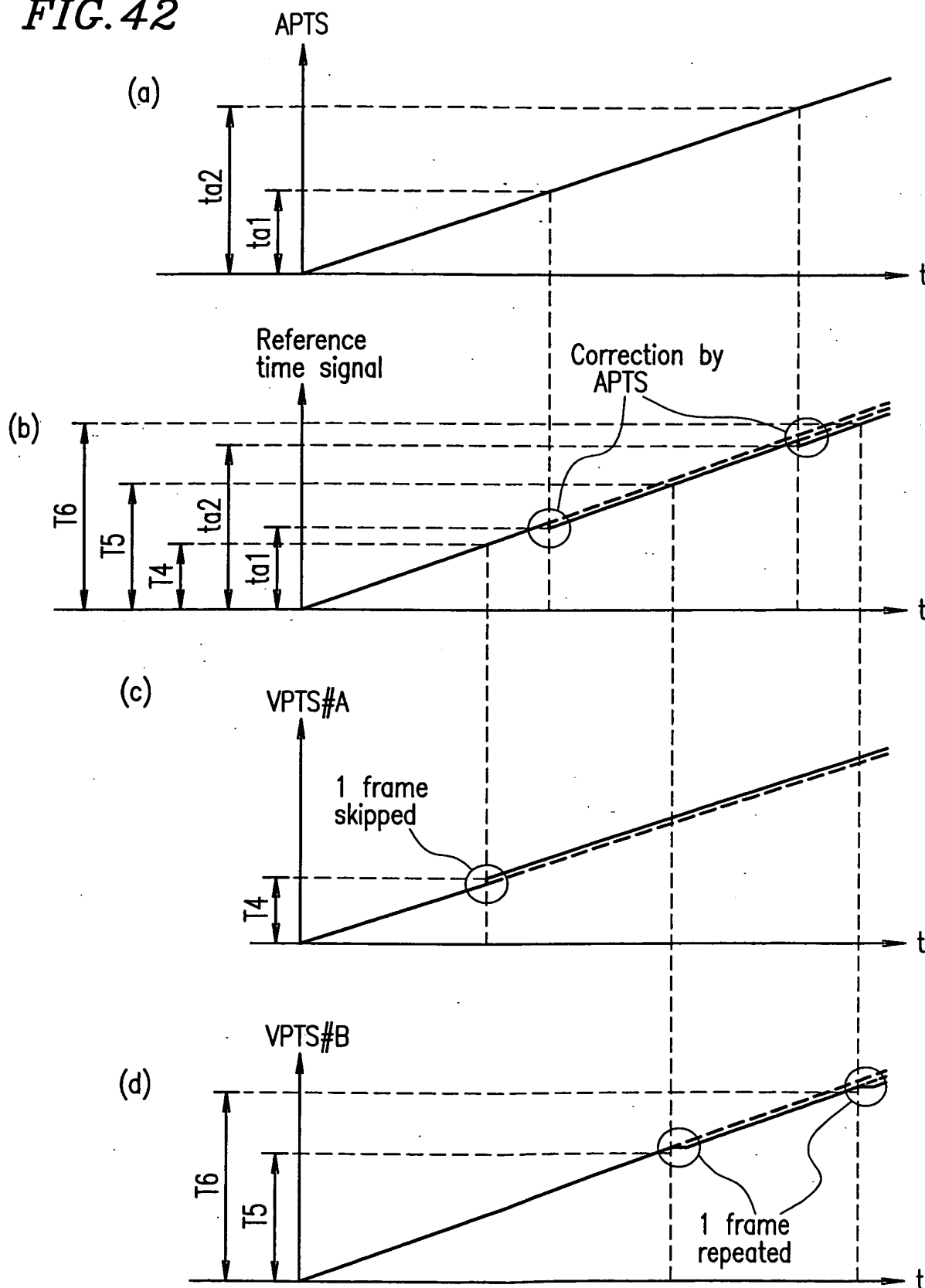


FIG. 42



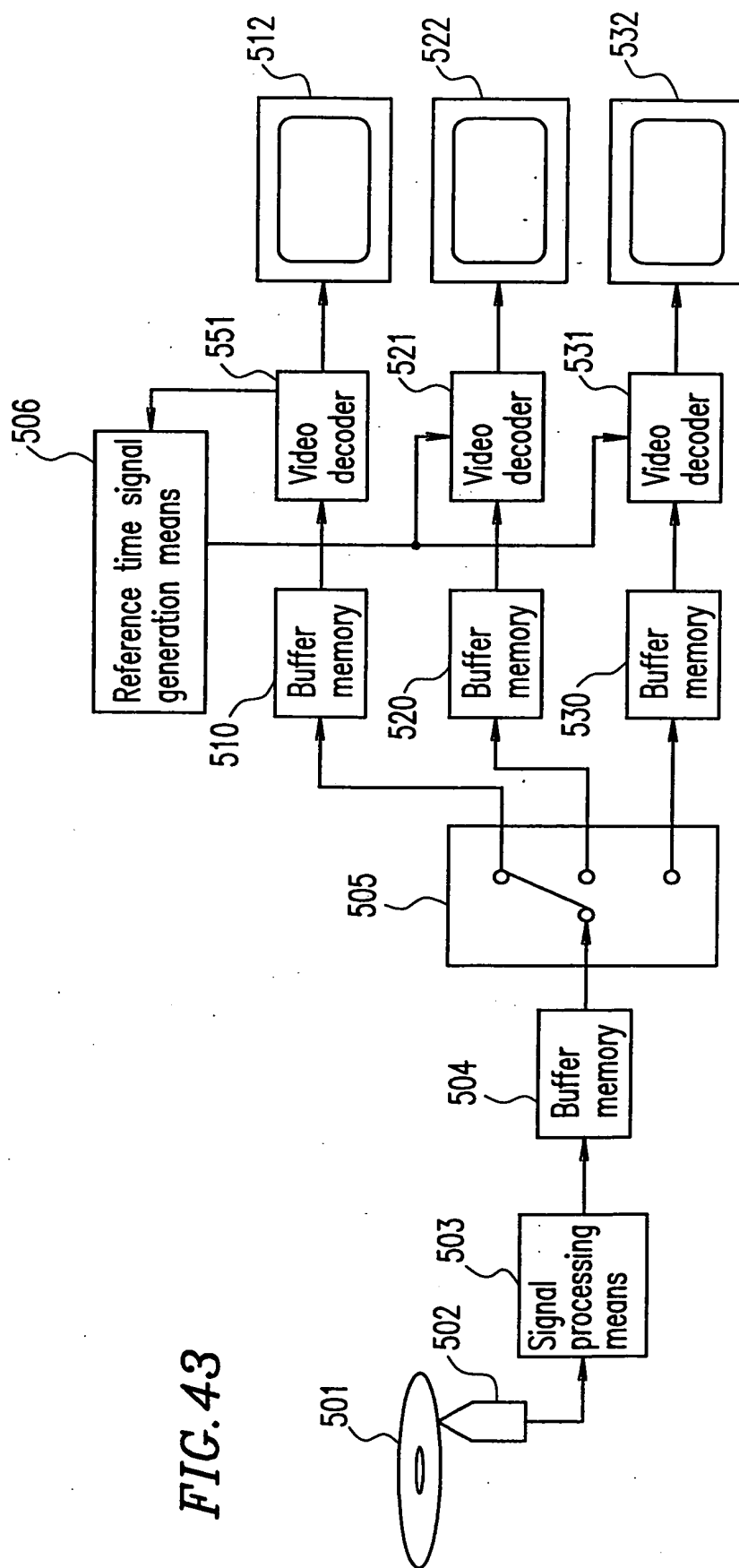
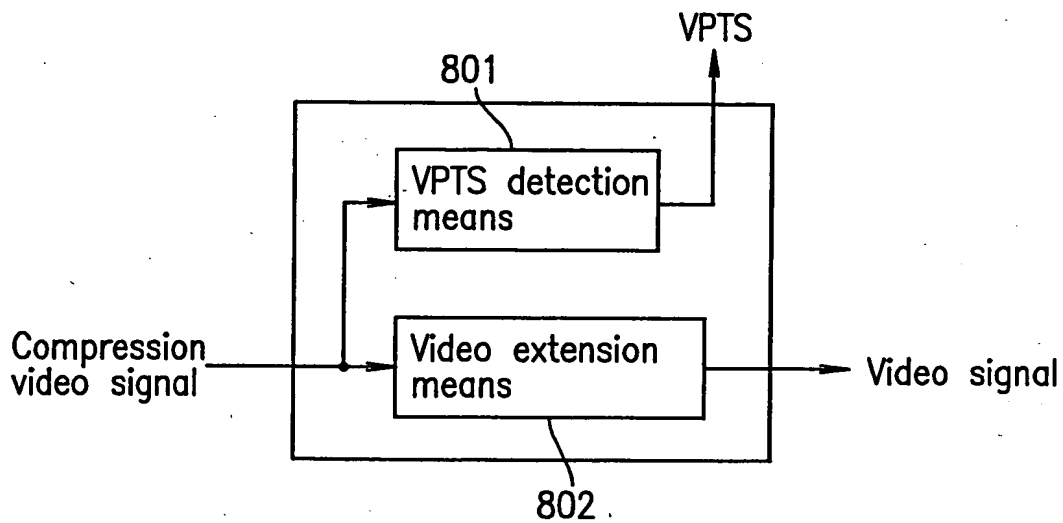
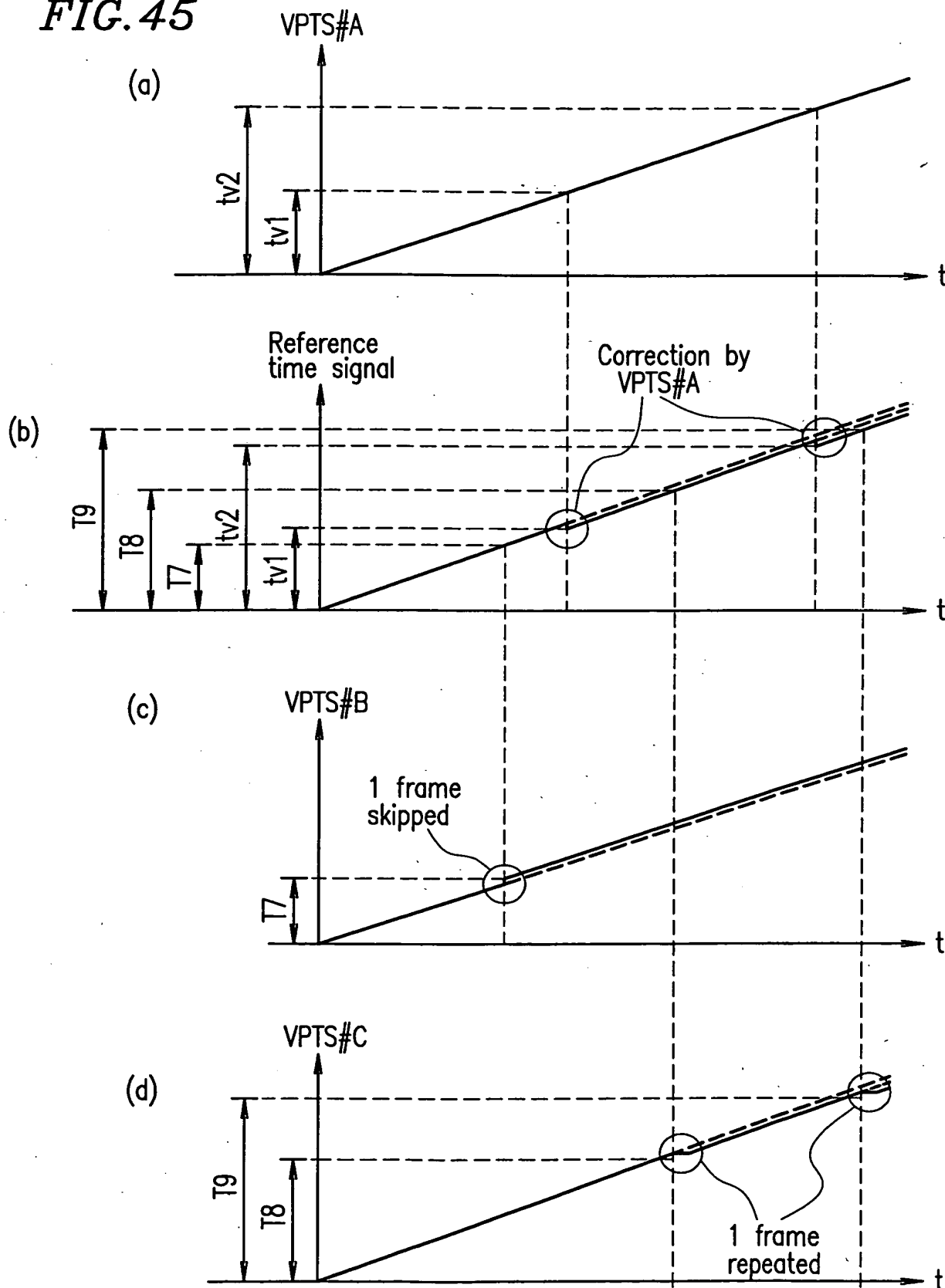


FIG. 43

FIG. 44



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FIG. 46

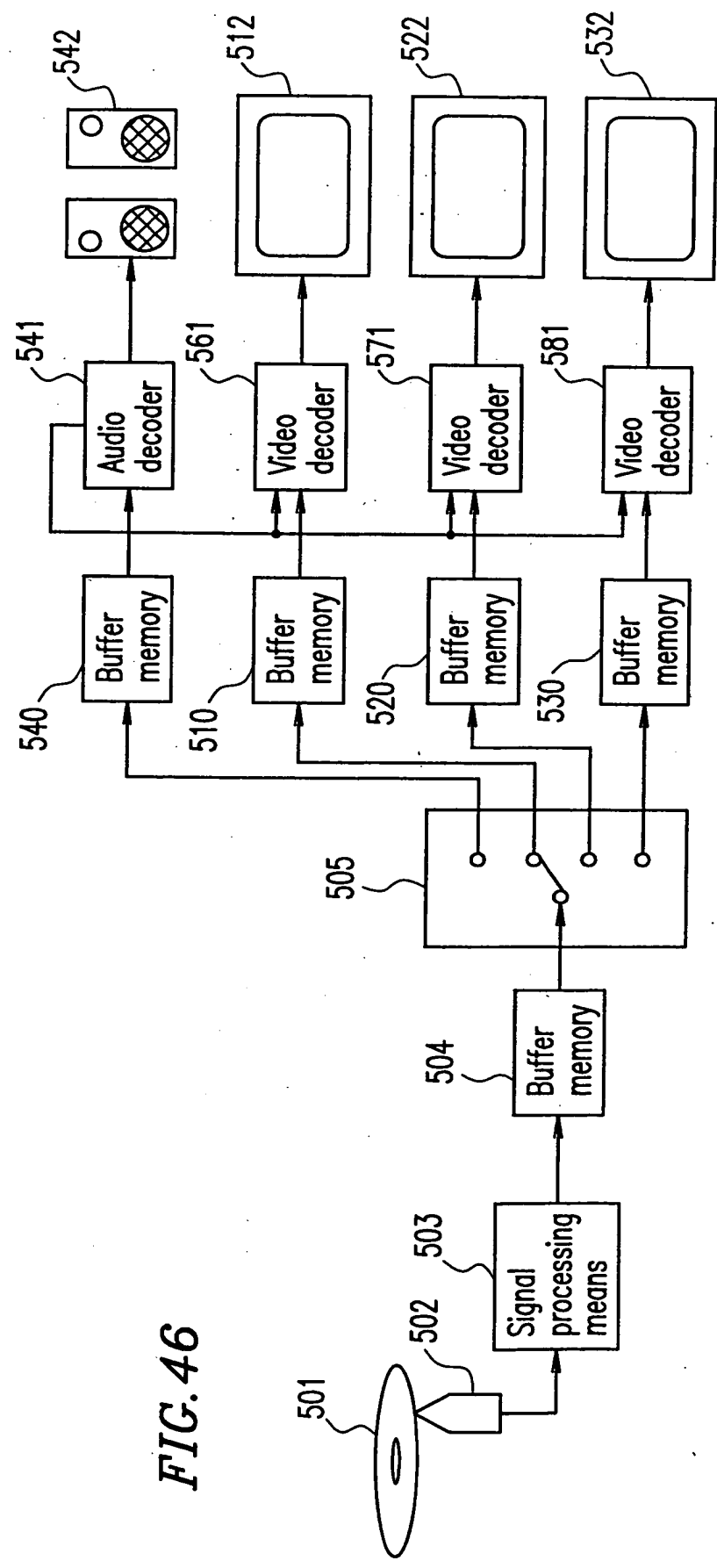


FIG. 48

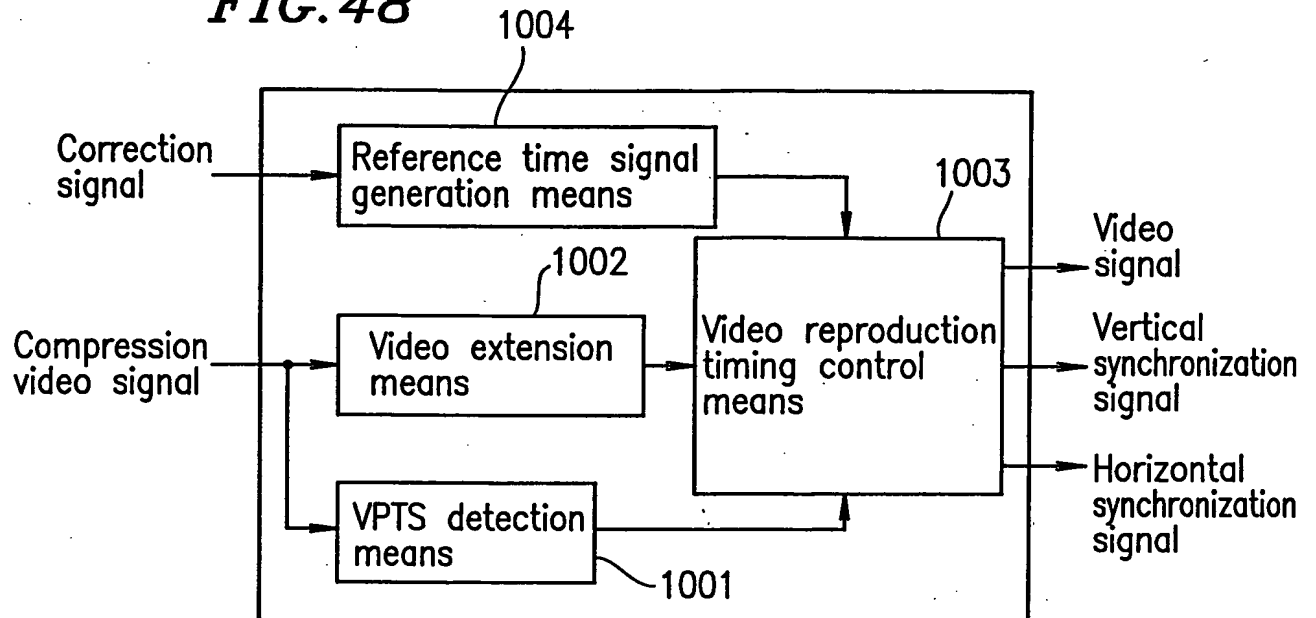


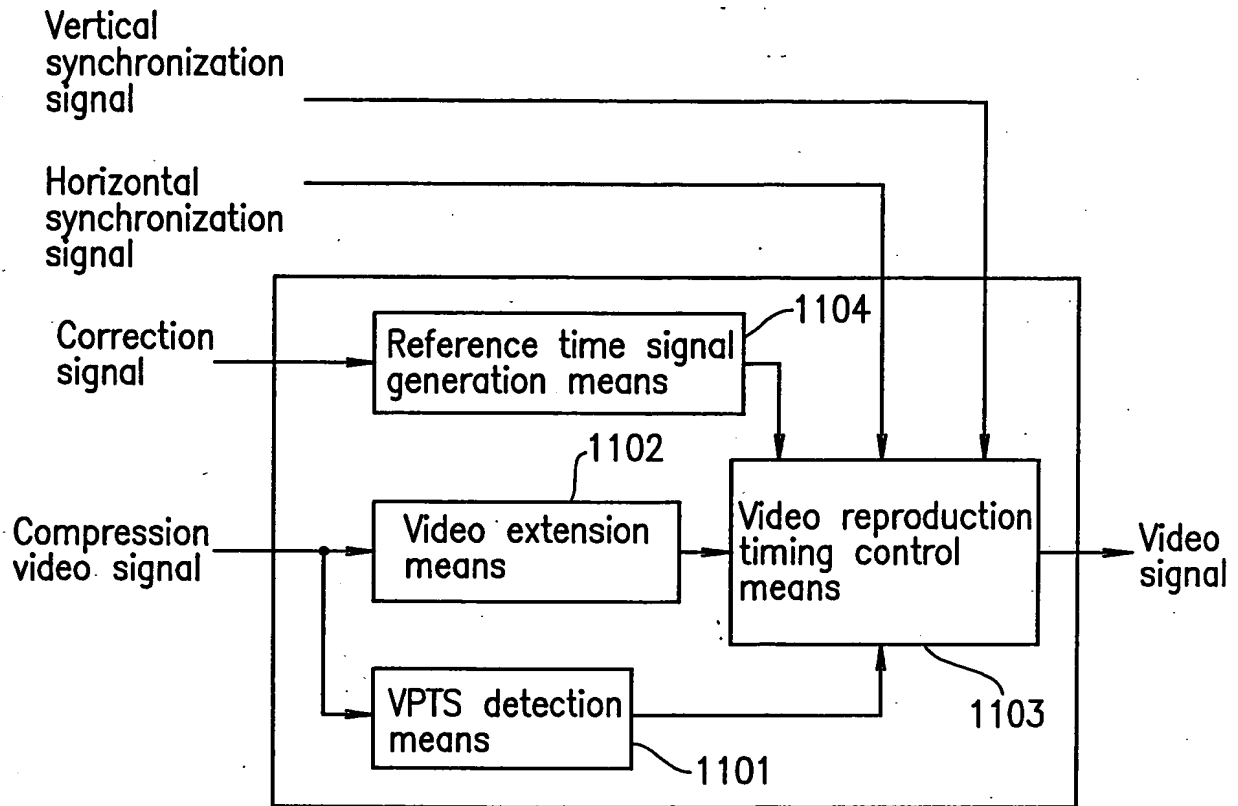
FIG. 49

FIG. 50

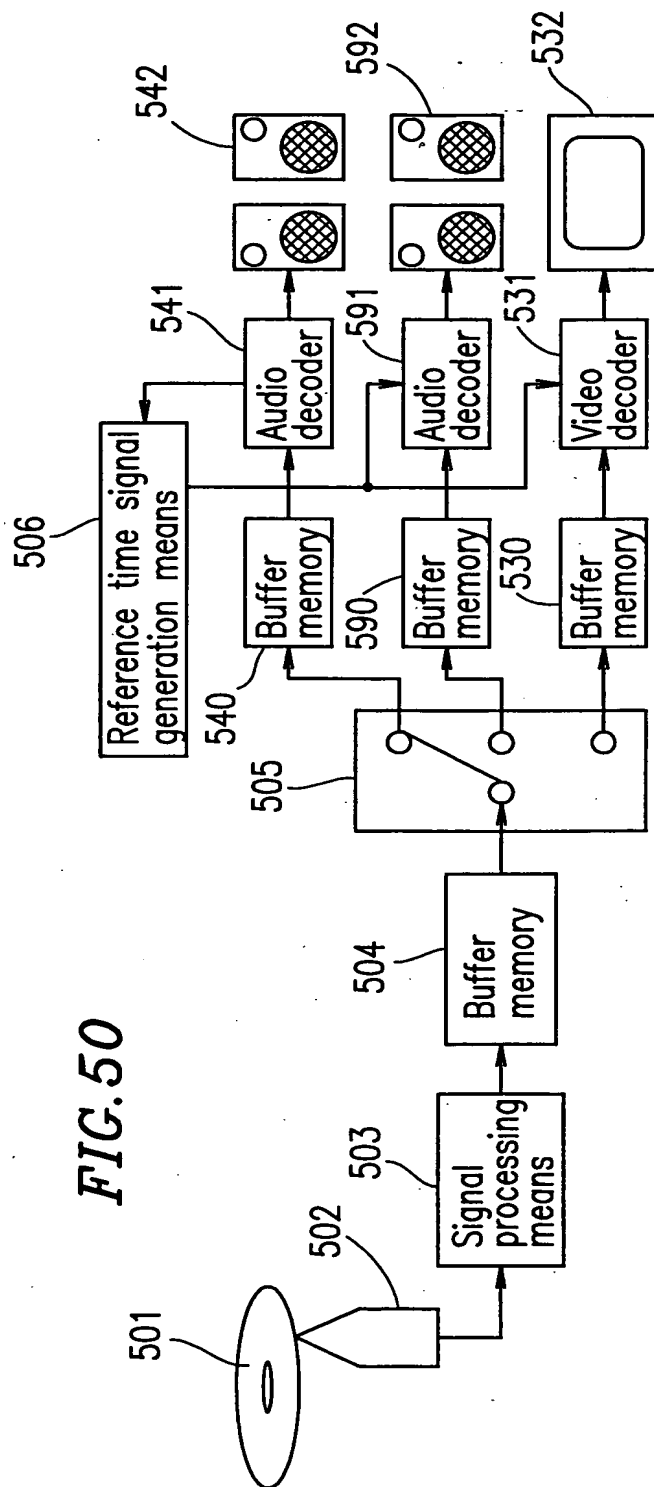
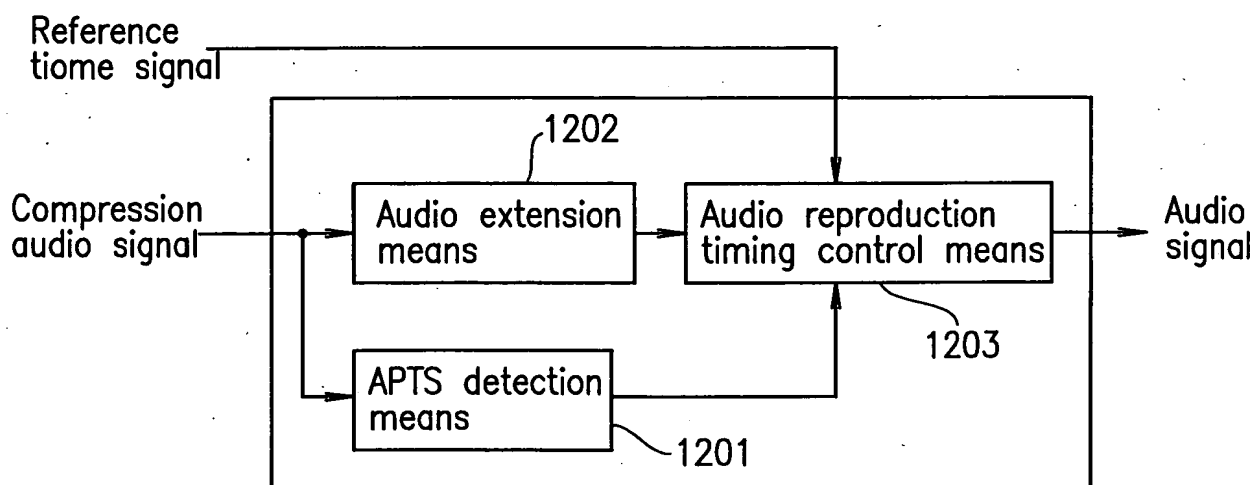


FIG. 51



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FIG. 52

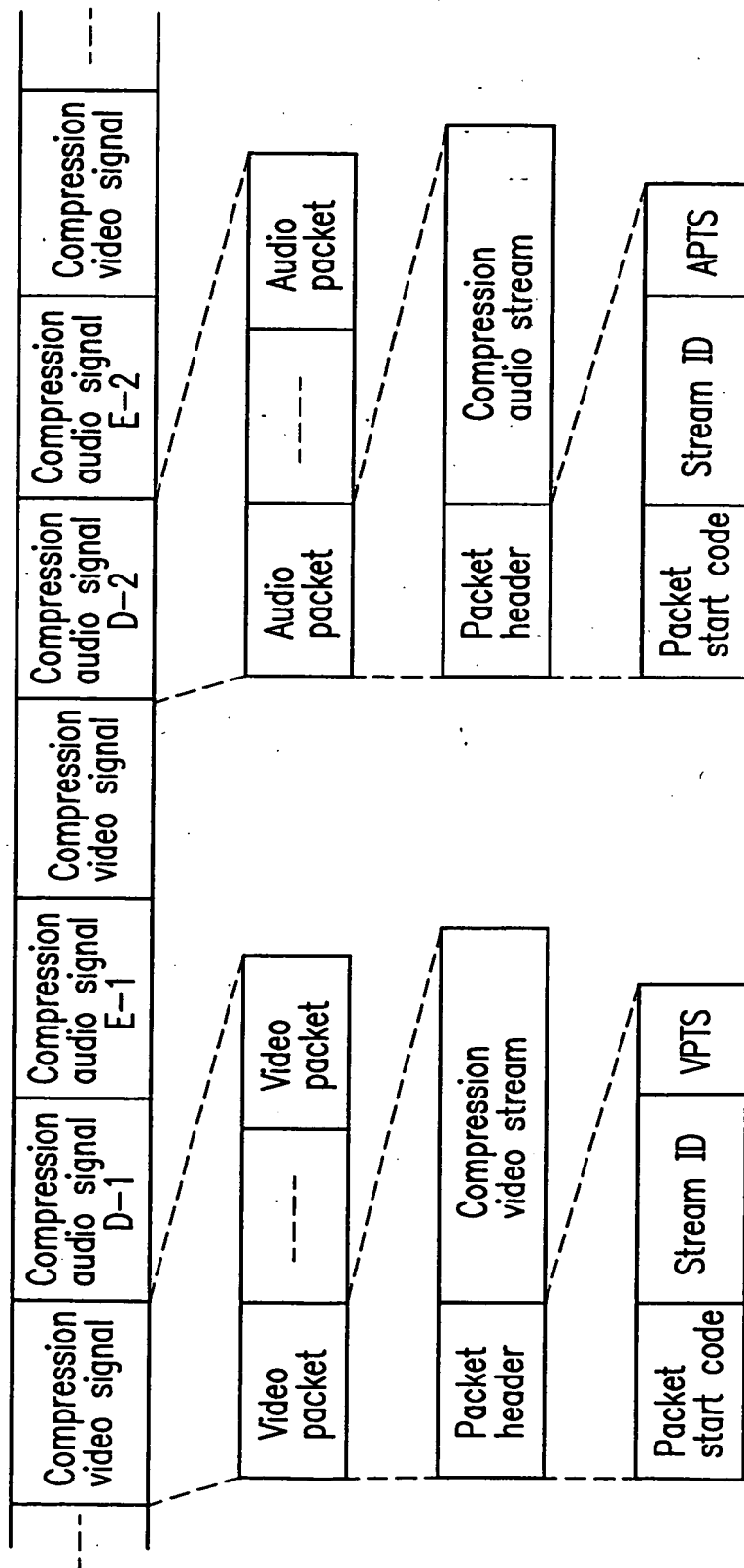


FIG. 53

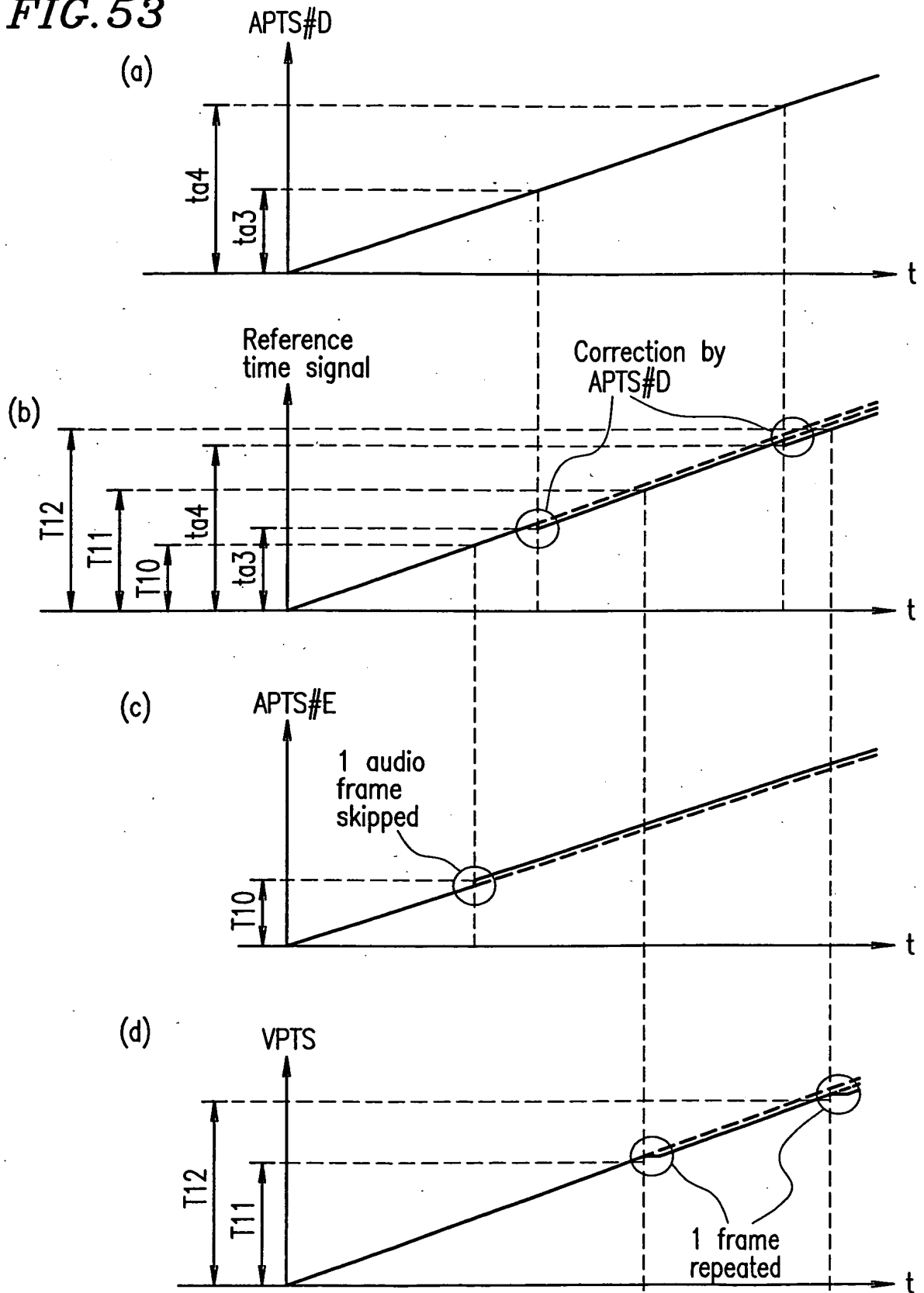
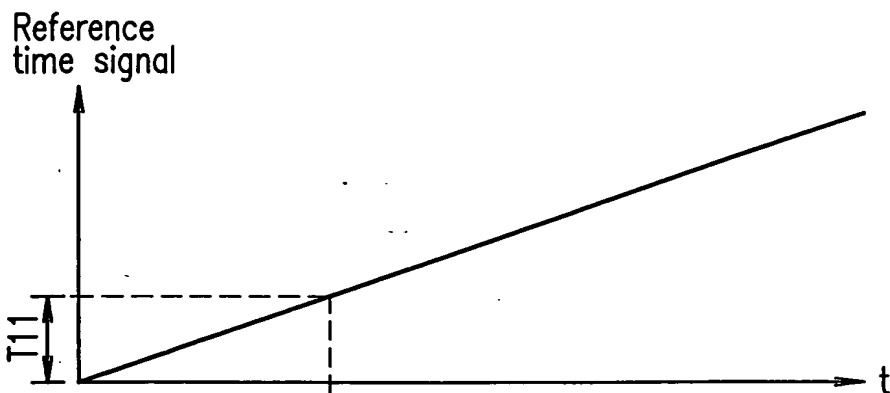
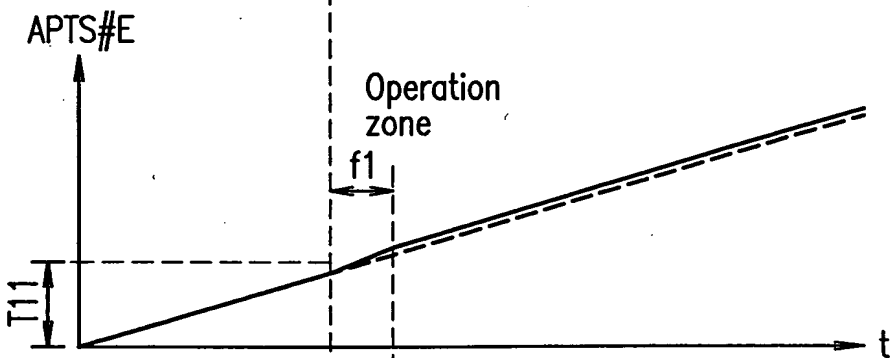


FIG. 54

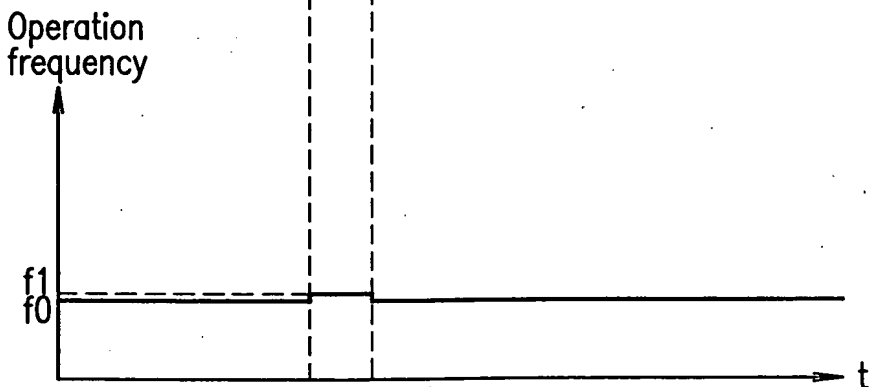
(a)



(b)

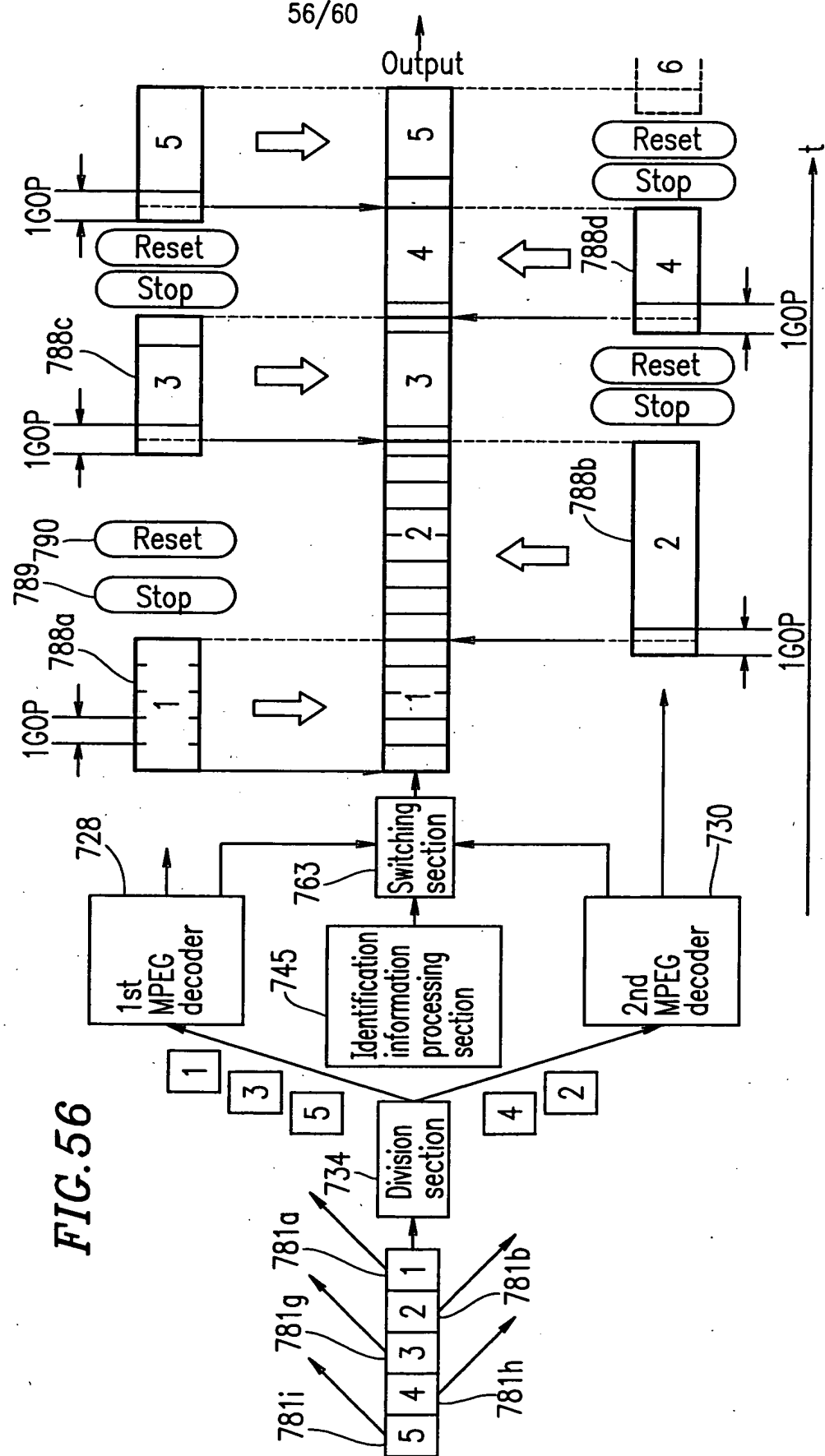


(c)



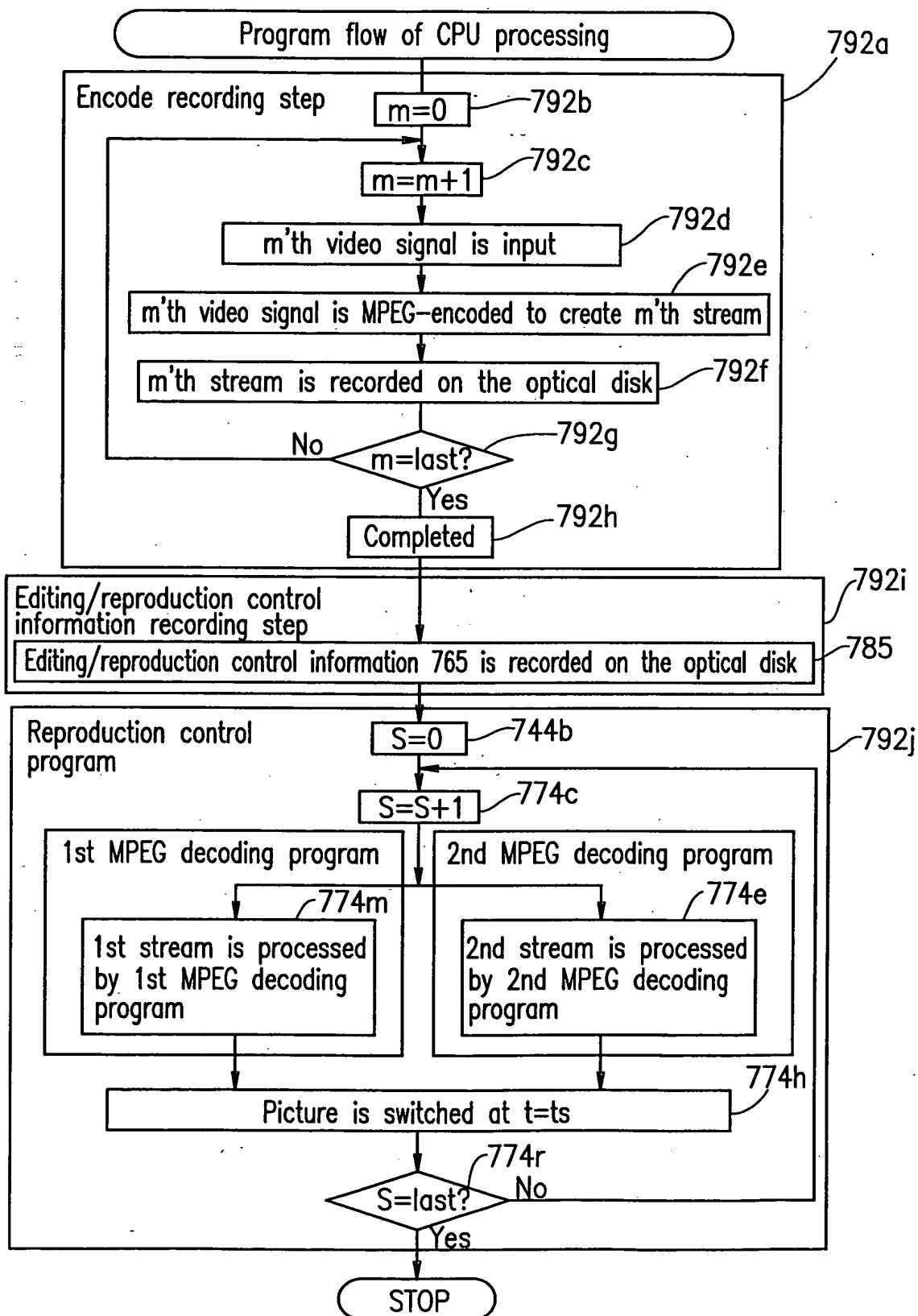
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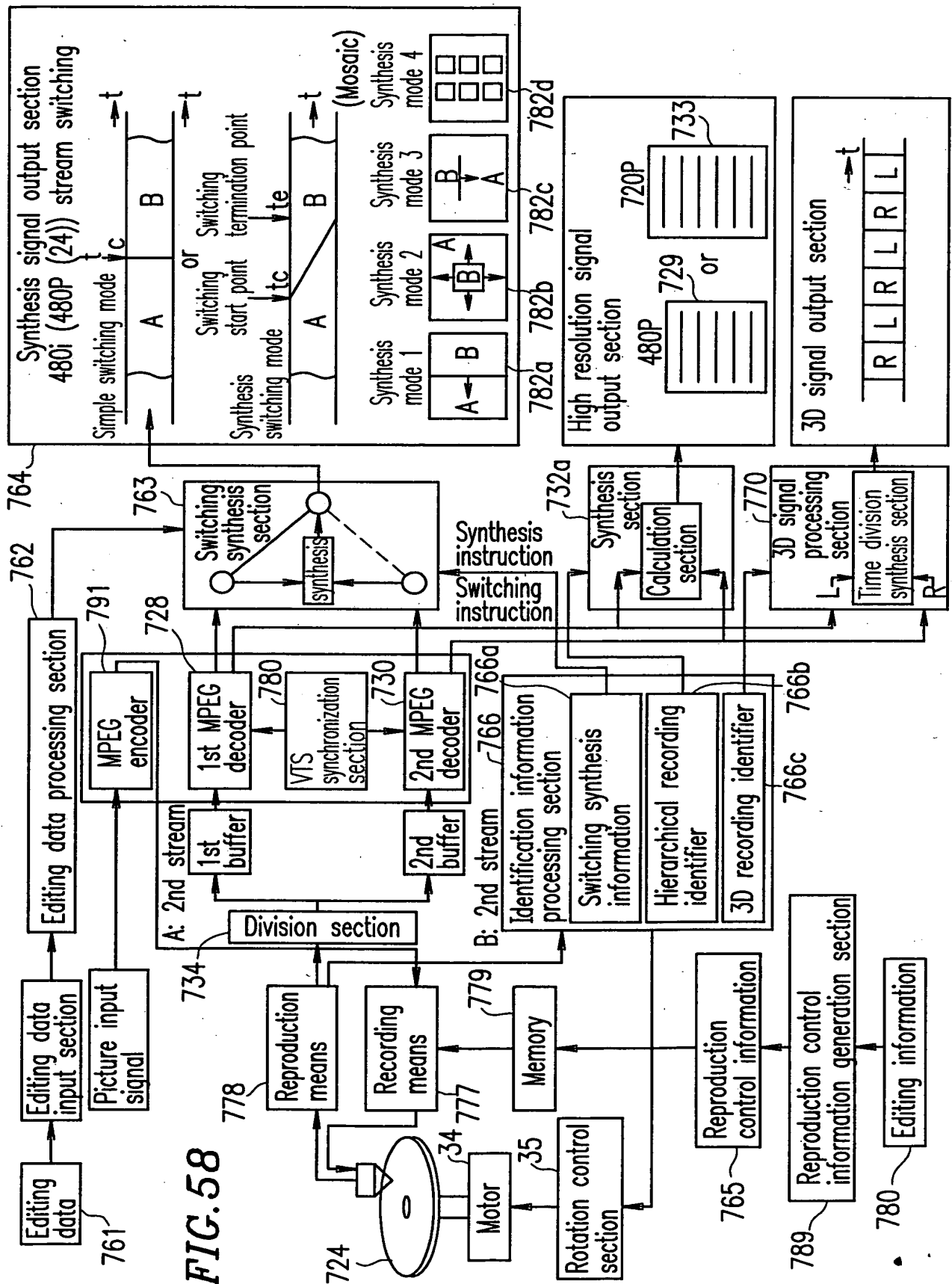
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FIG. 57





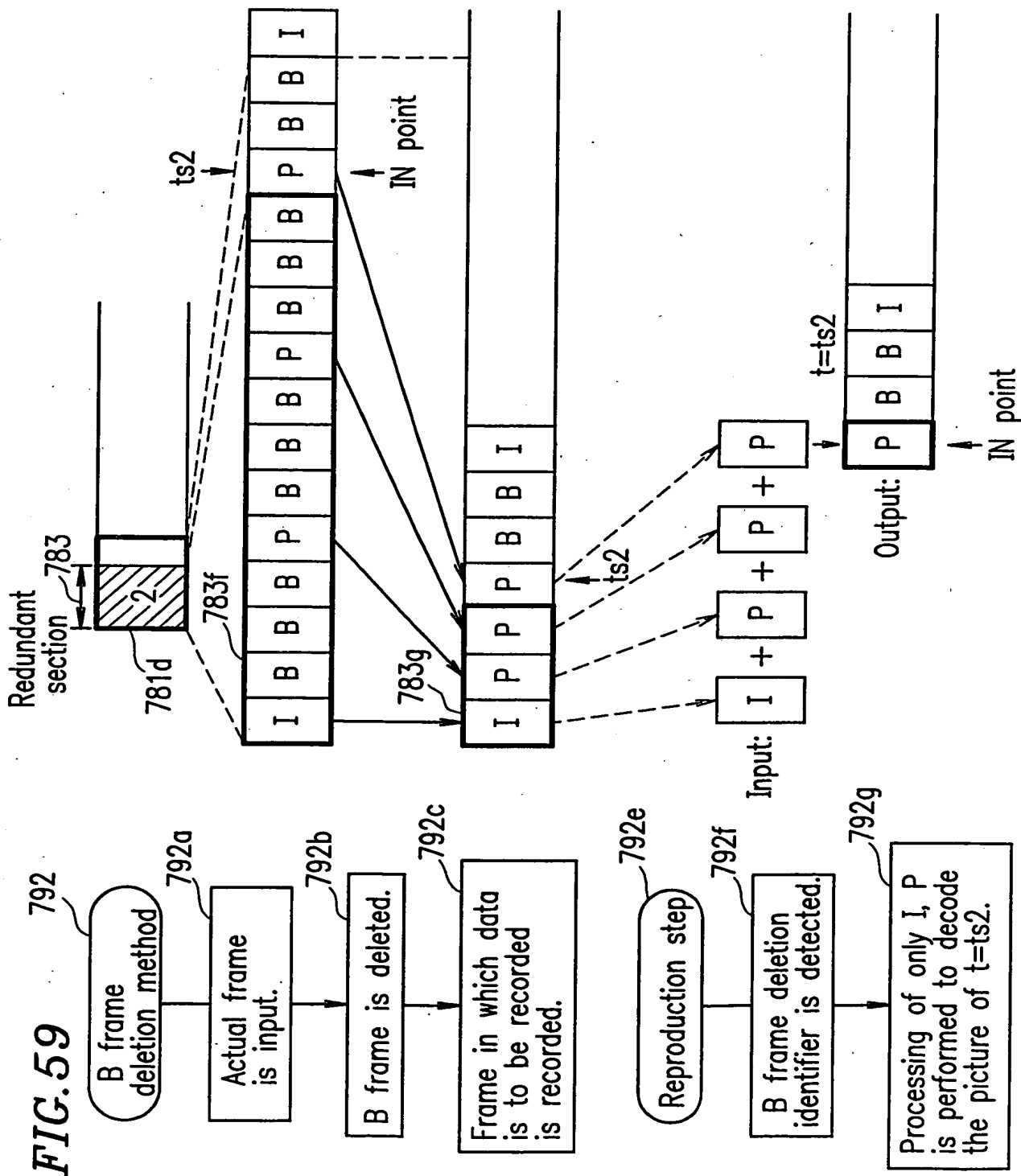


FIG. 60

